

**FIG. 1**

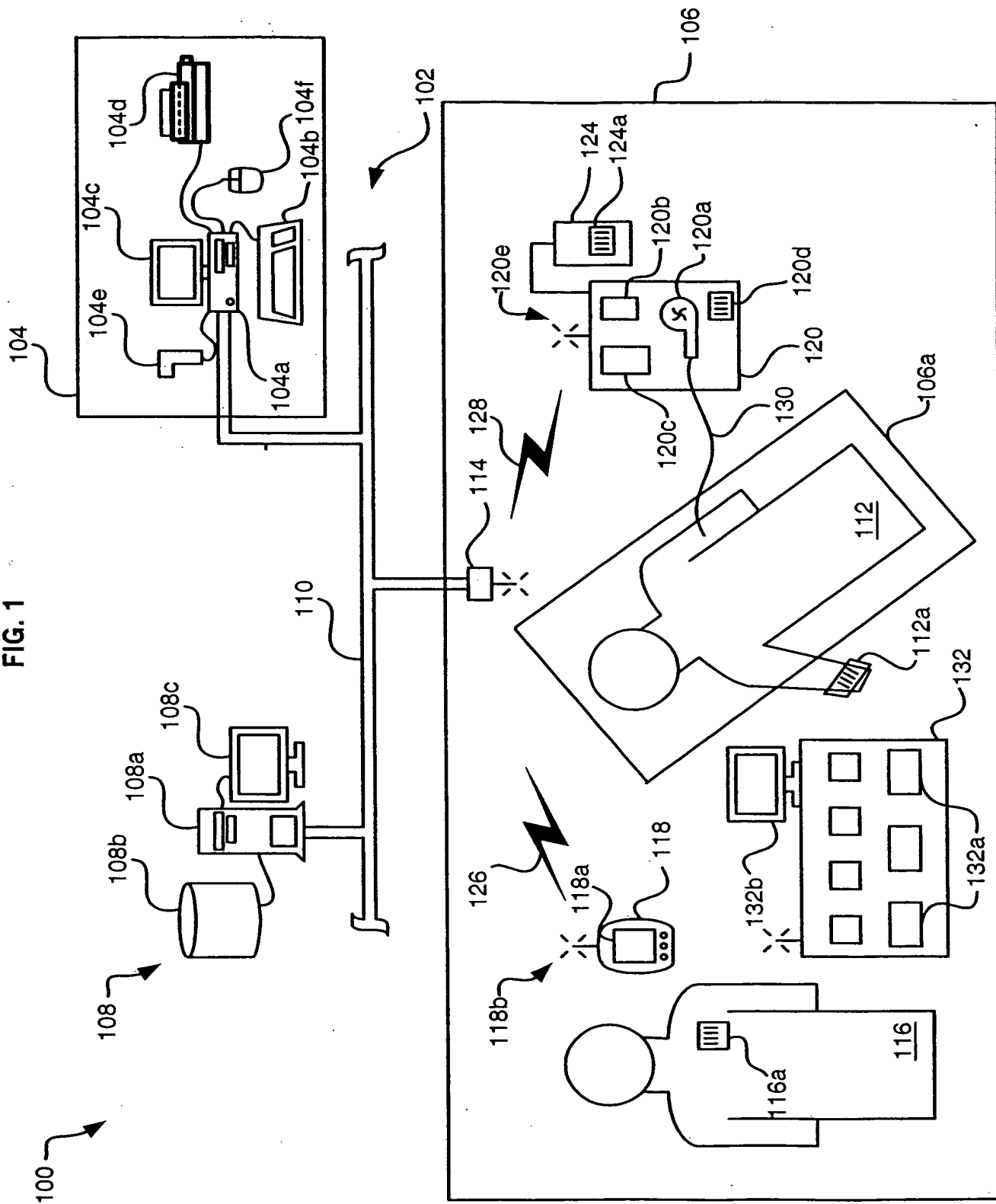
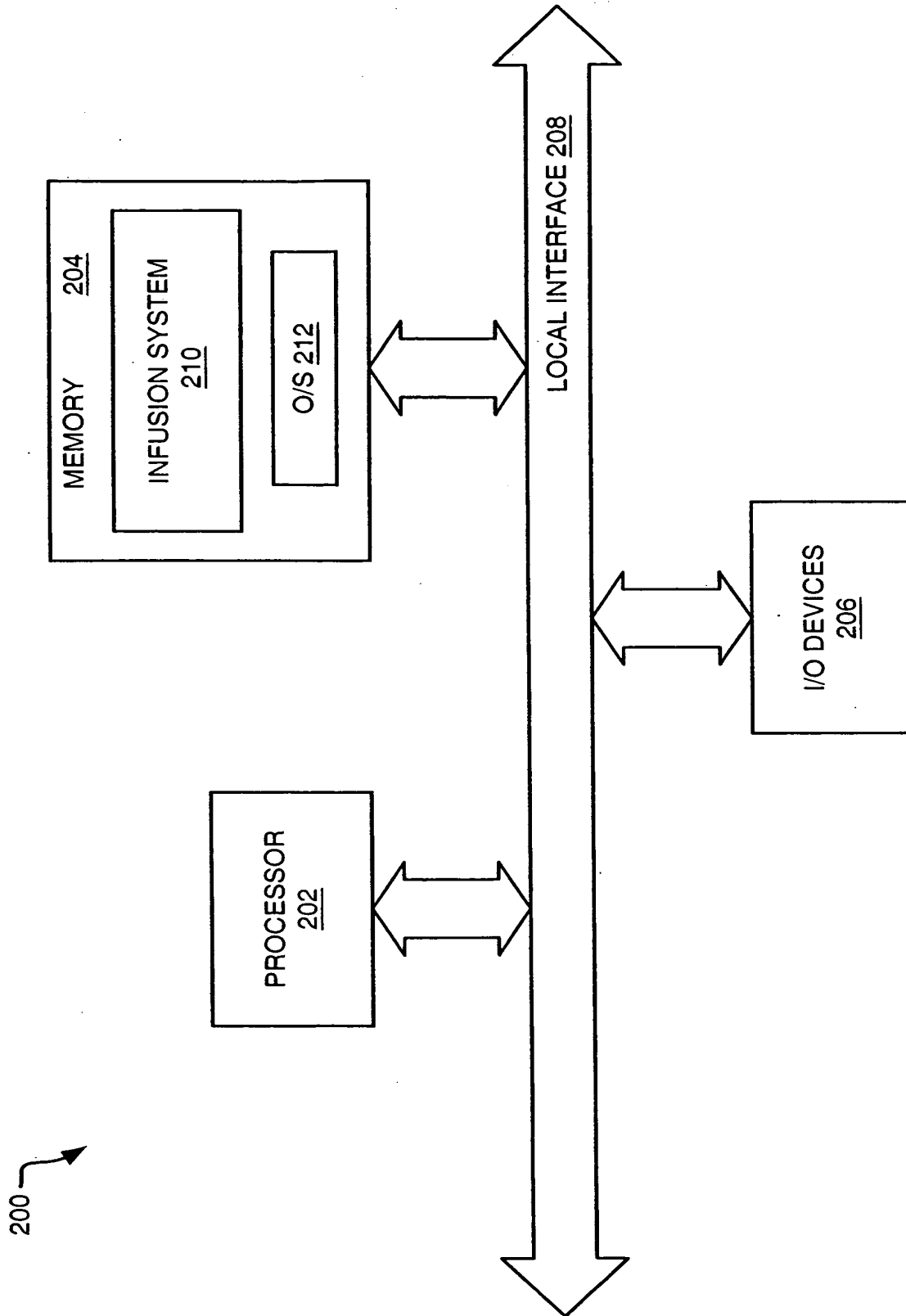


FIG. 2



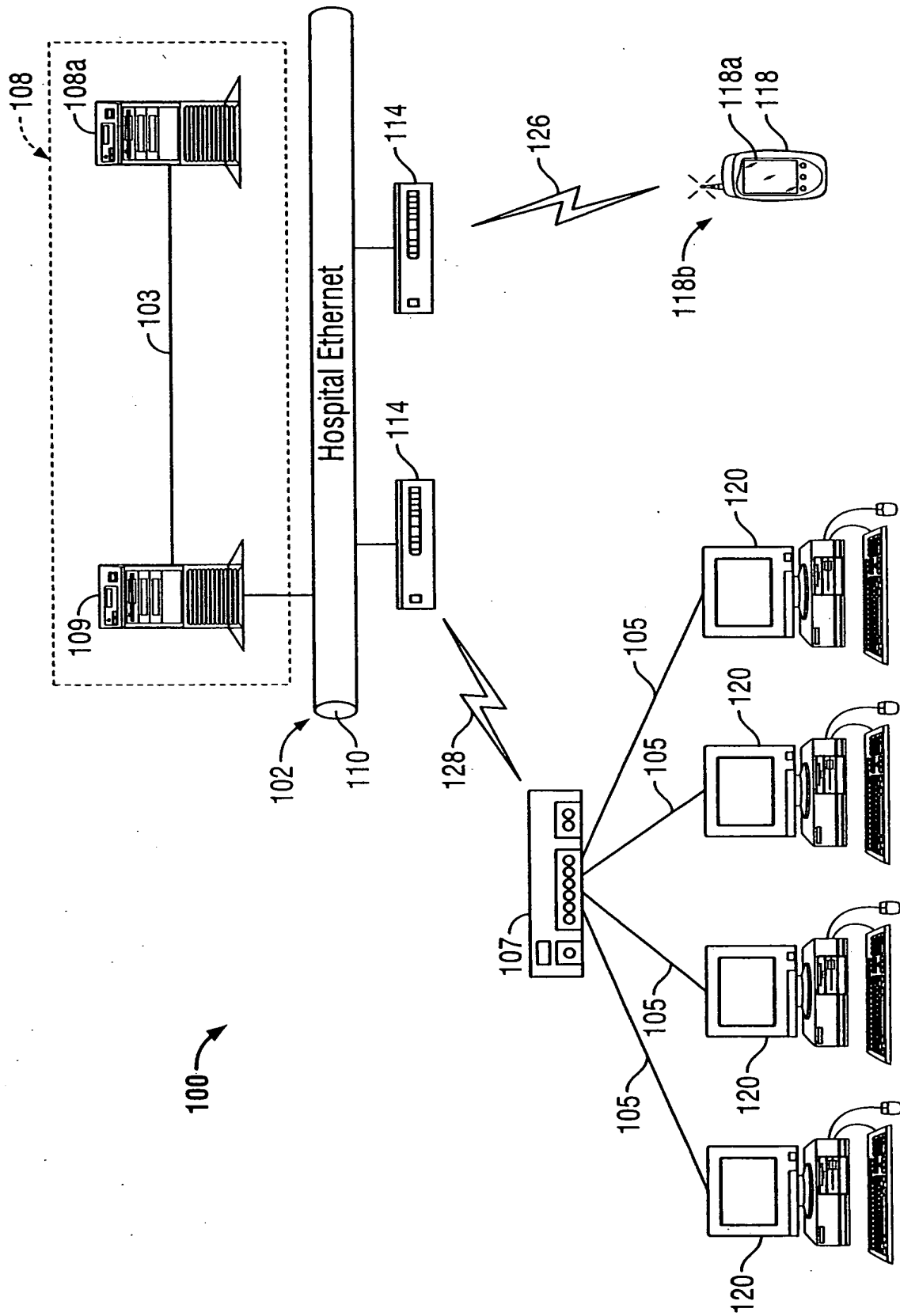
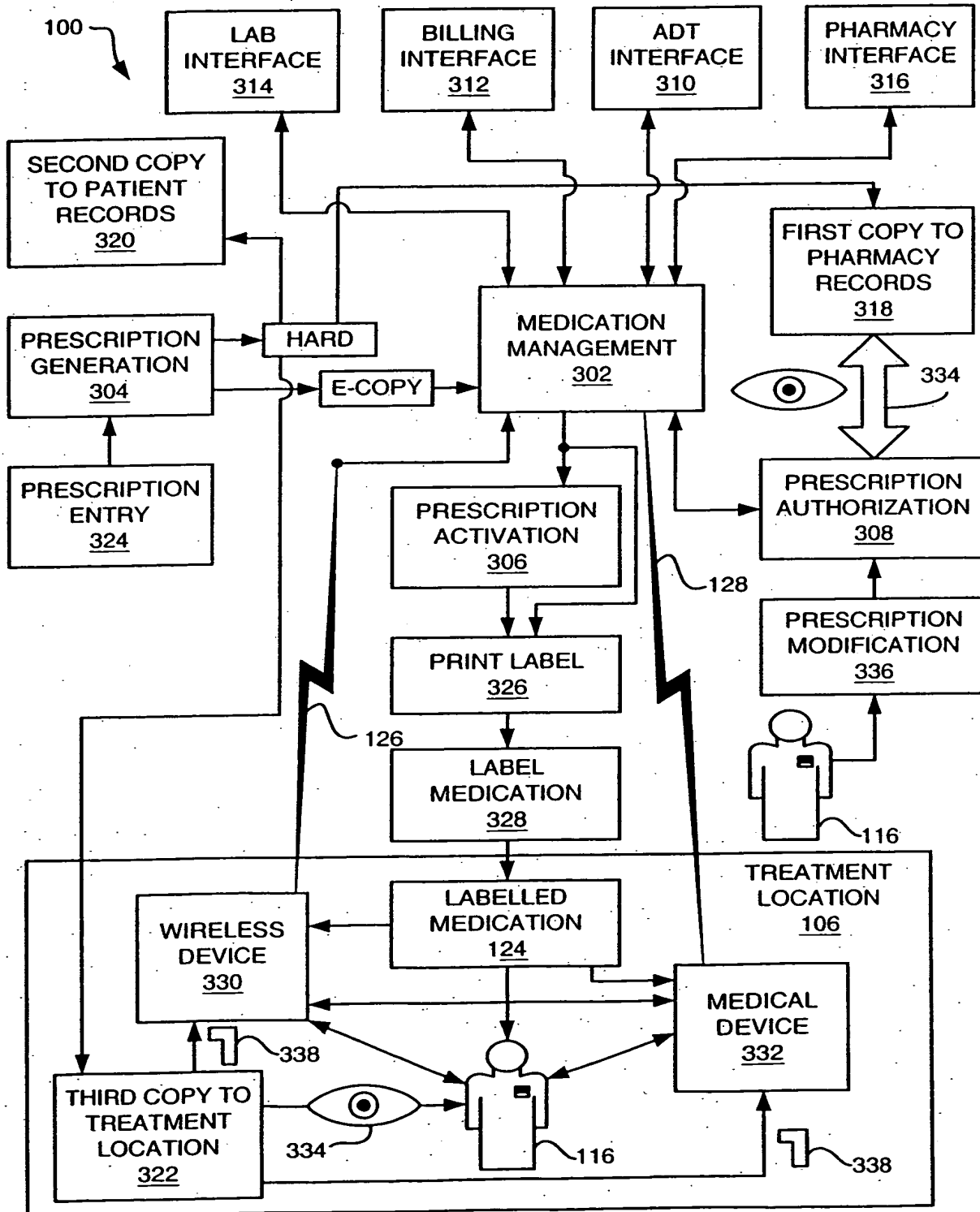


FIG. 3

FIG. 4



**FIG. 5**

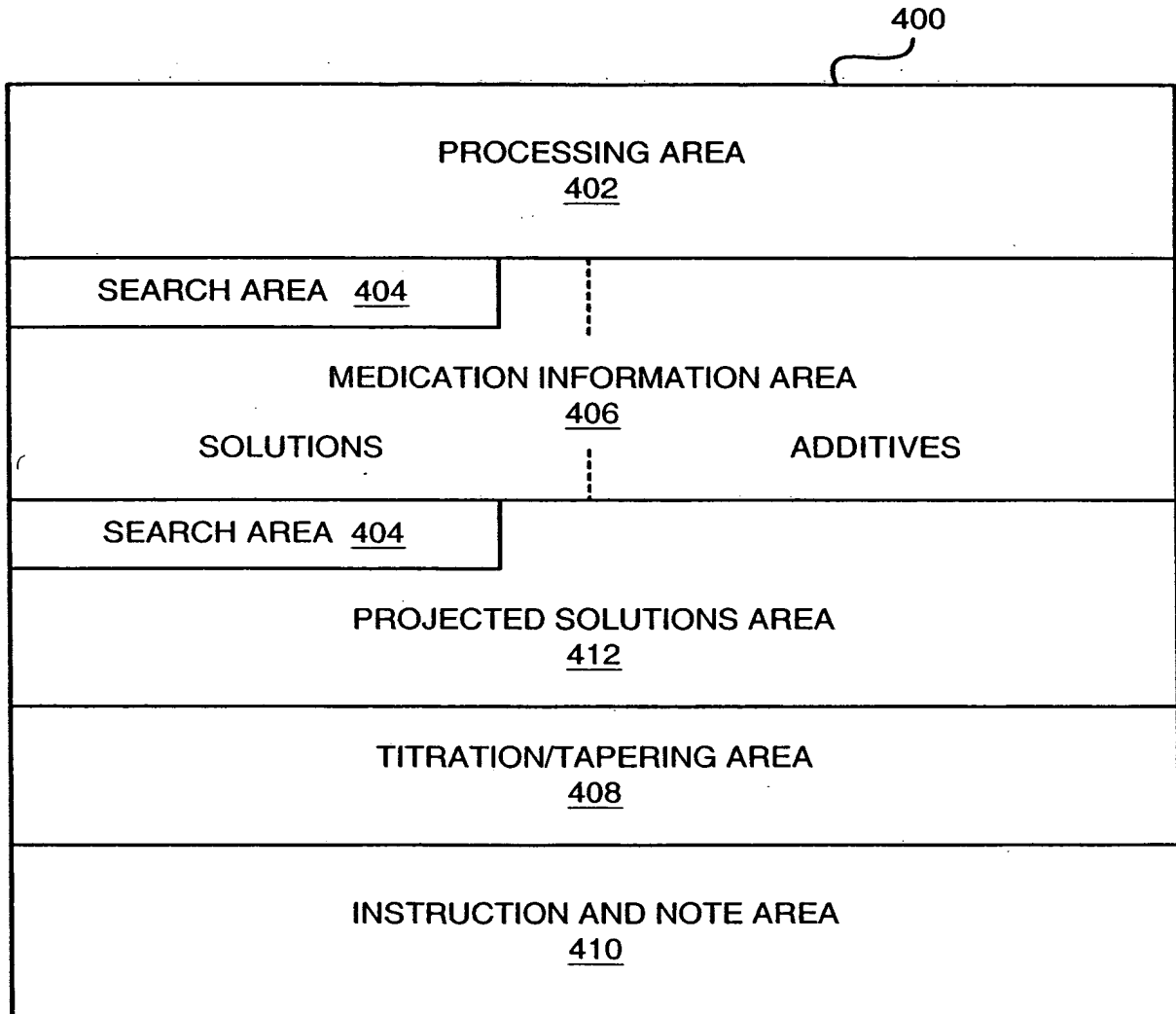


FIG. 6

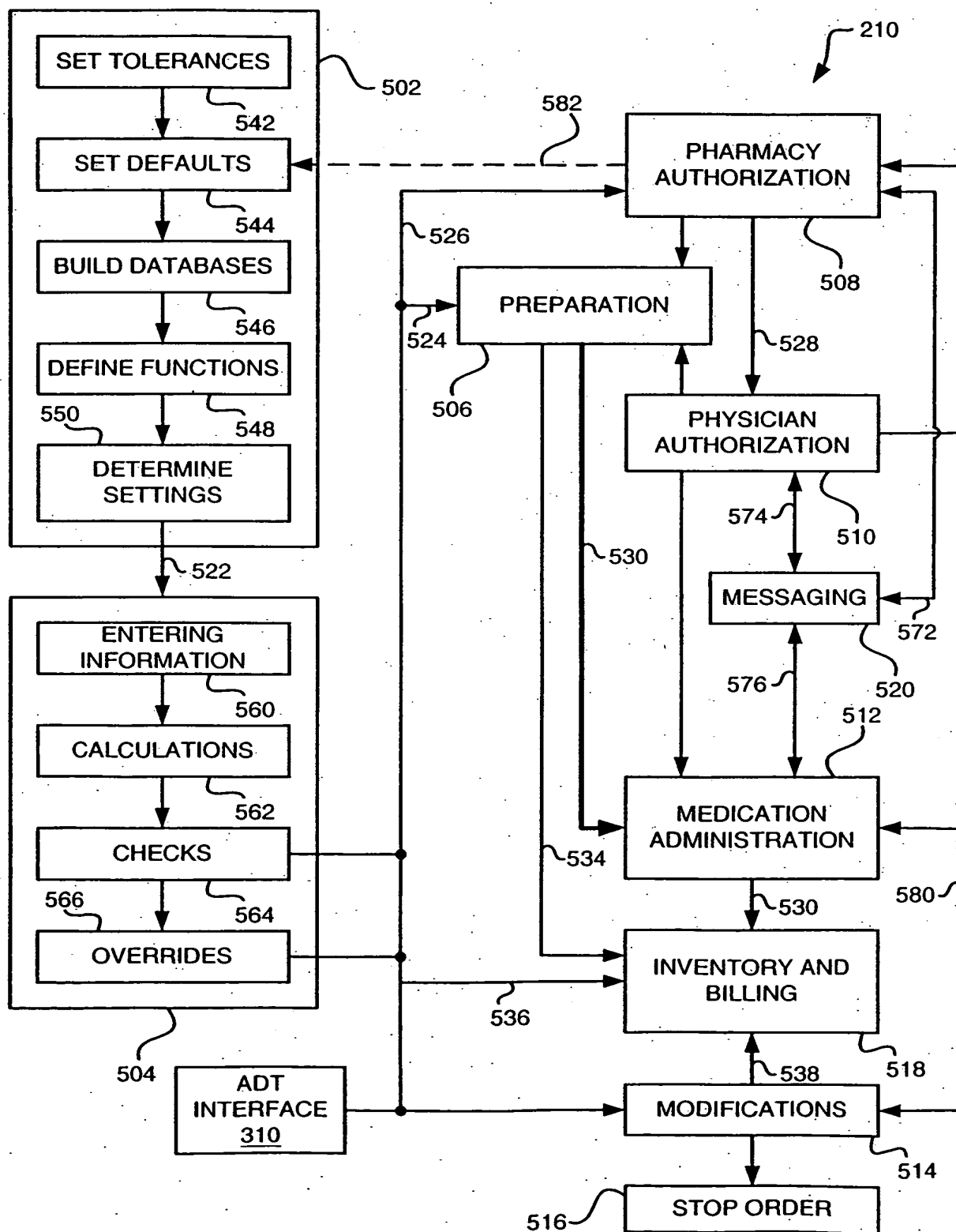


FIG. 7

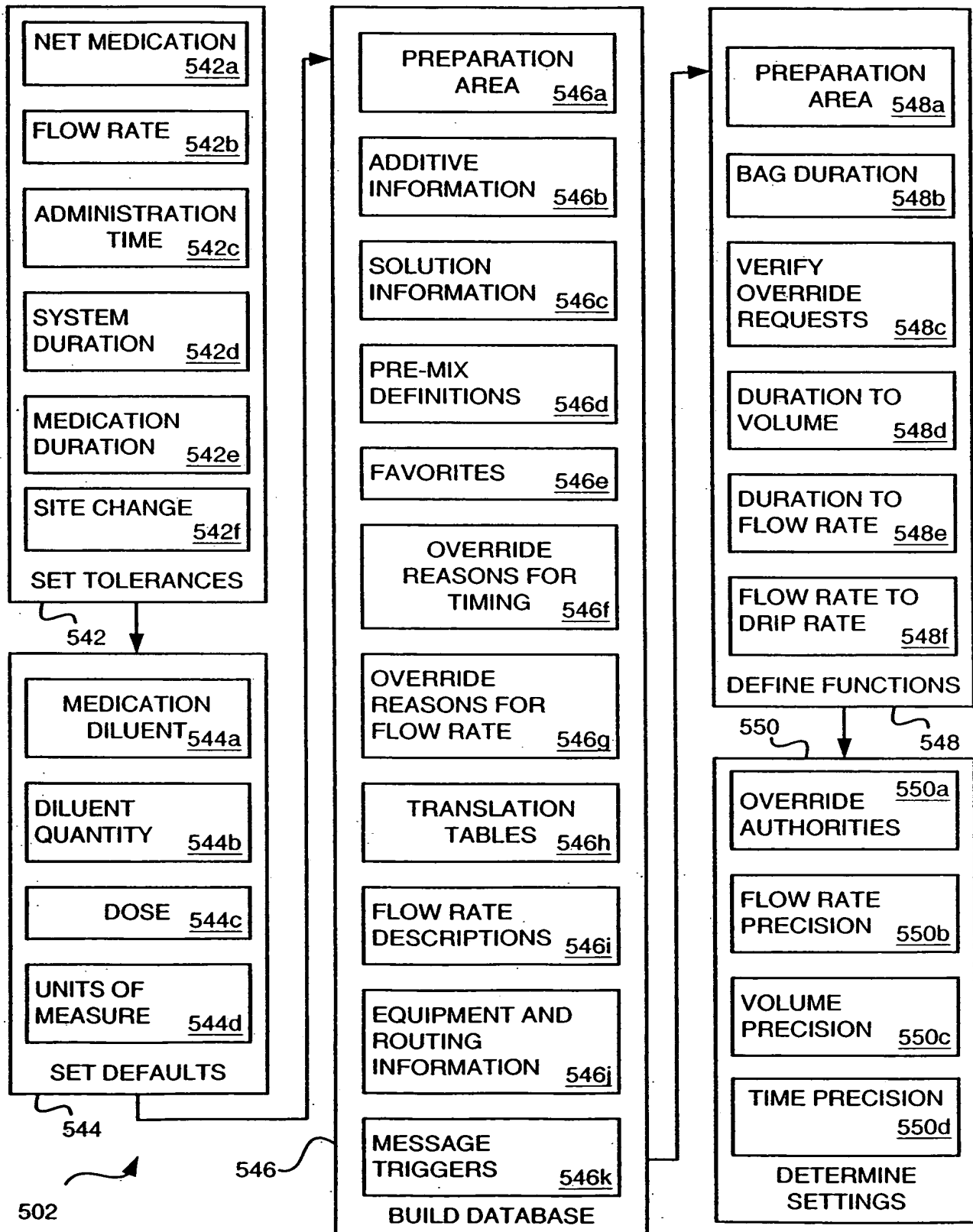


FIG. 8

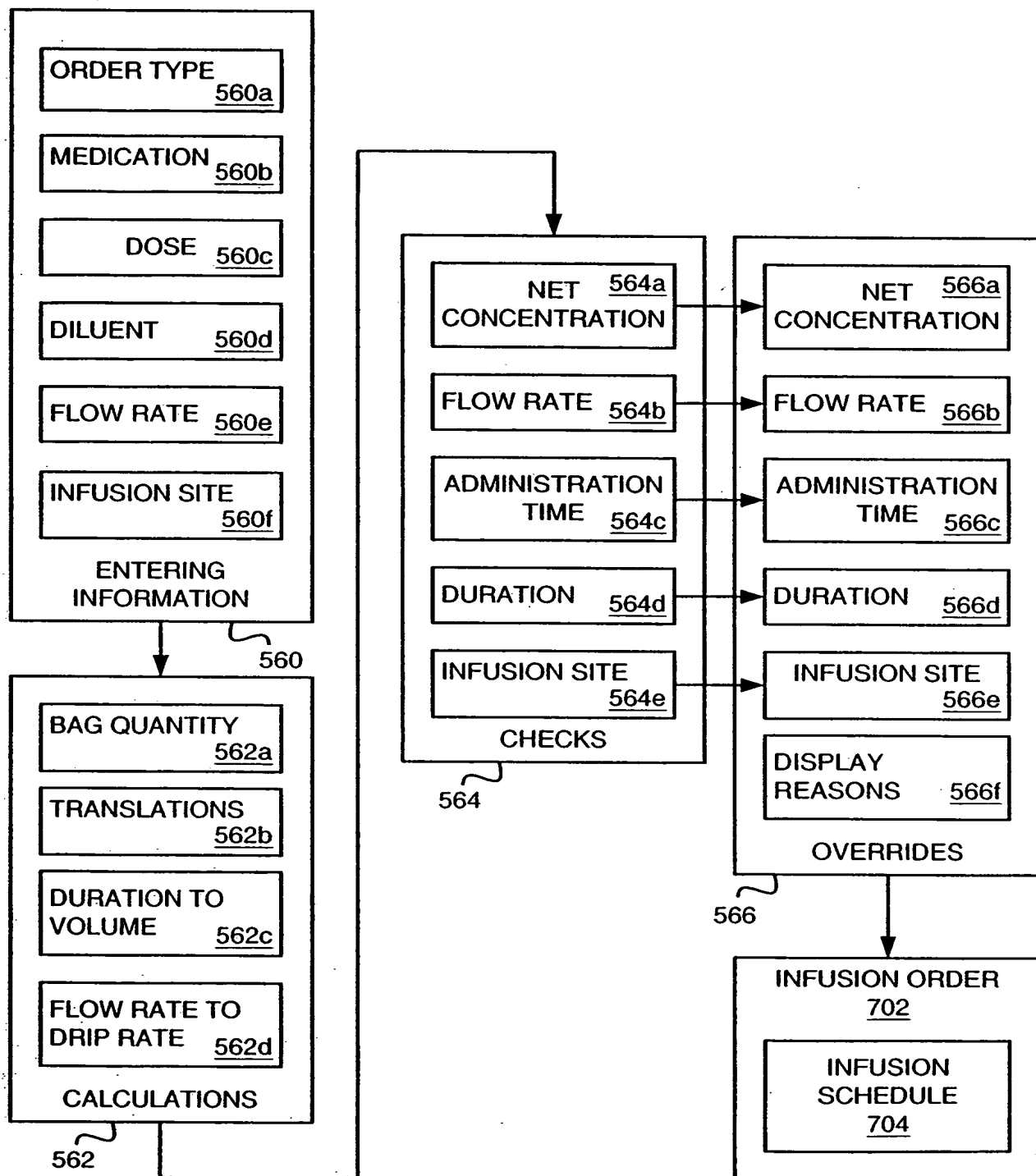




FIG. 9

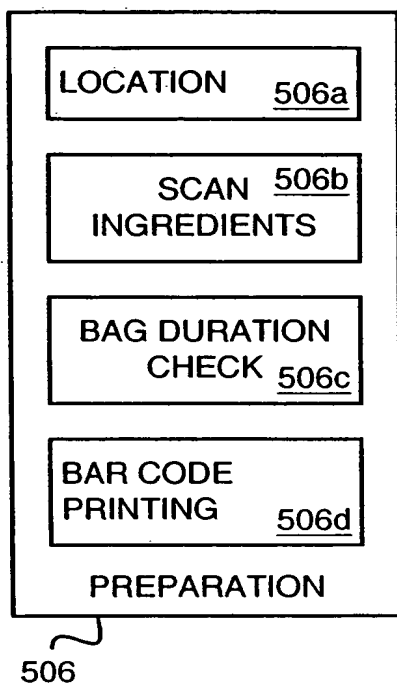


FIG. 10

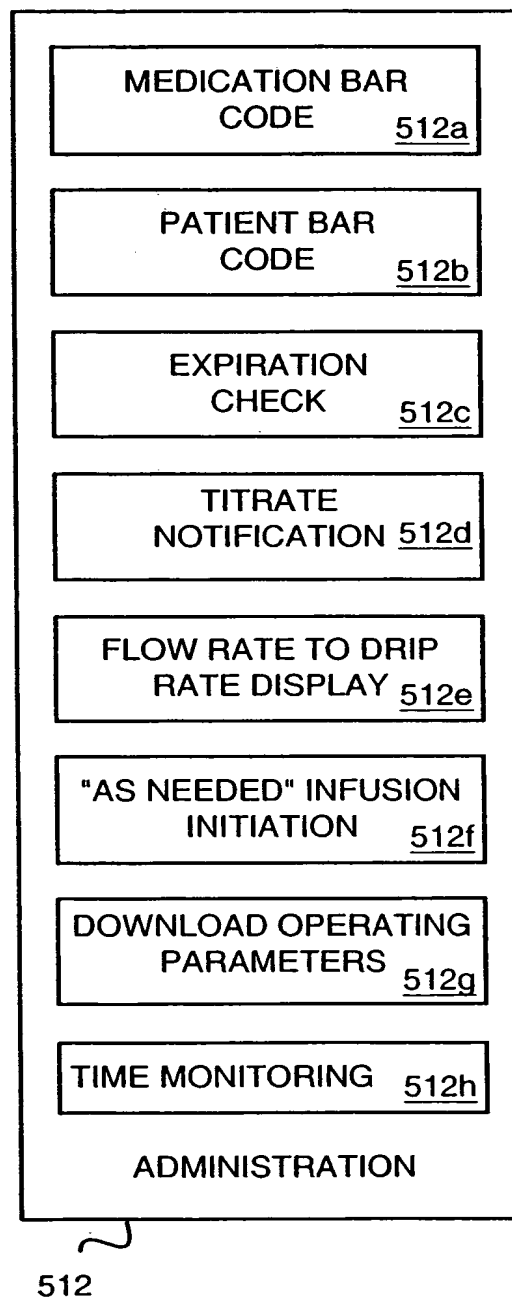
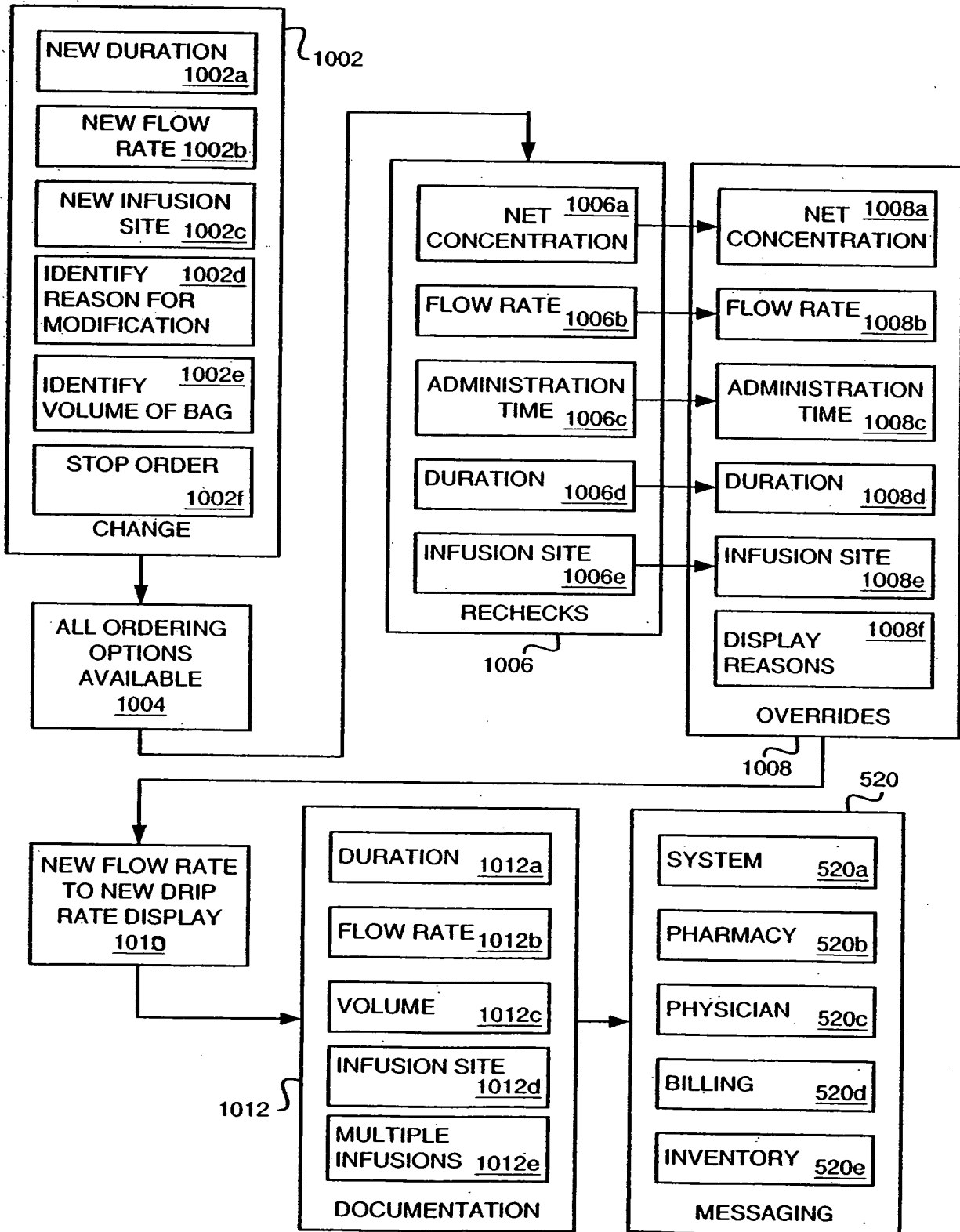


FIG. 11



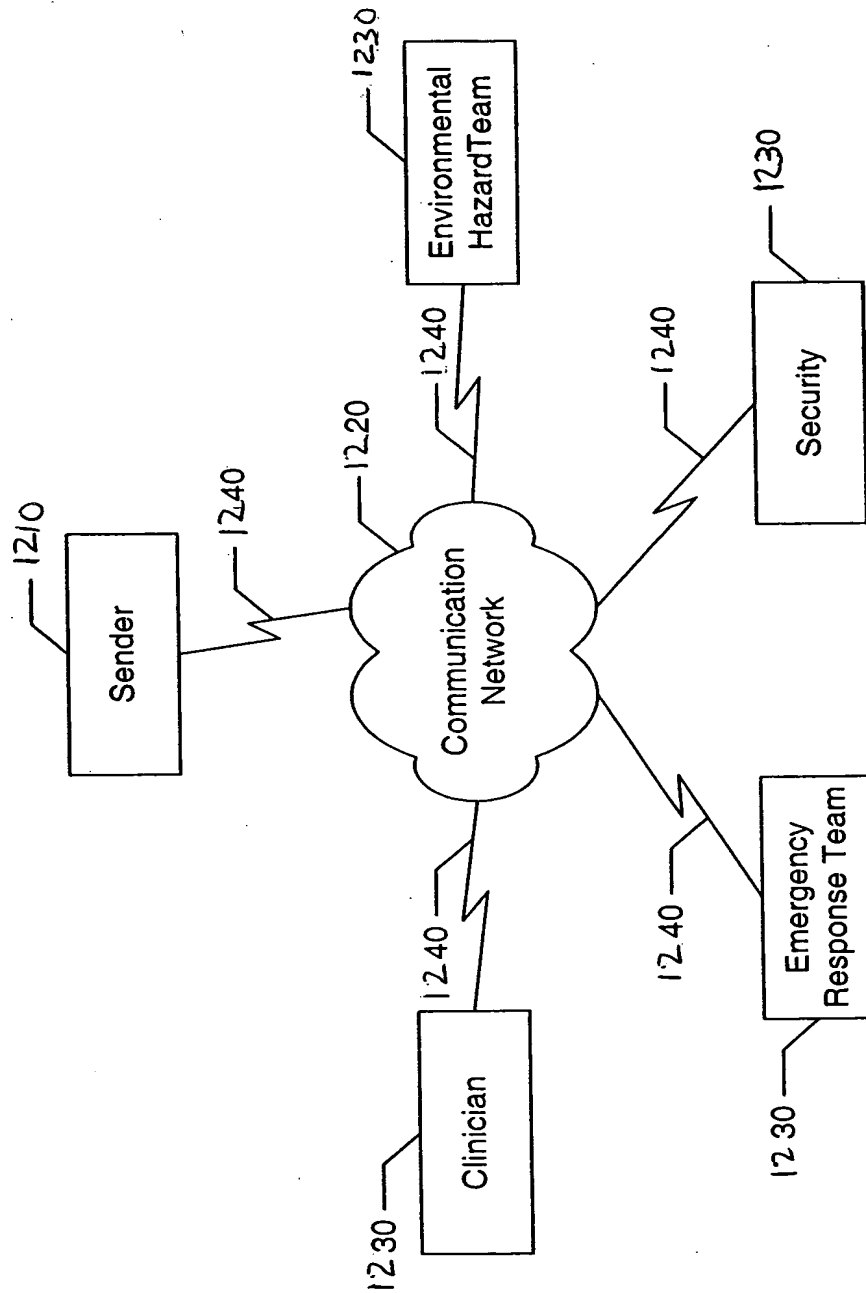


FIG. 12

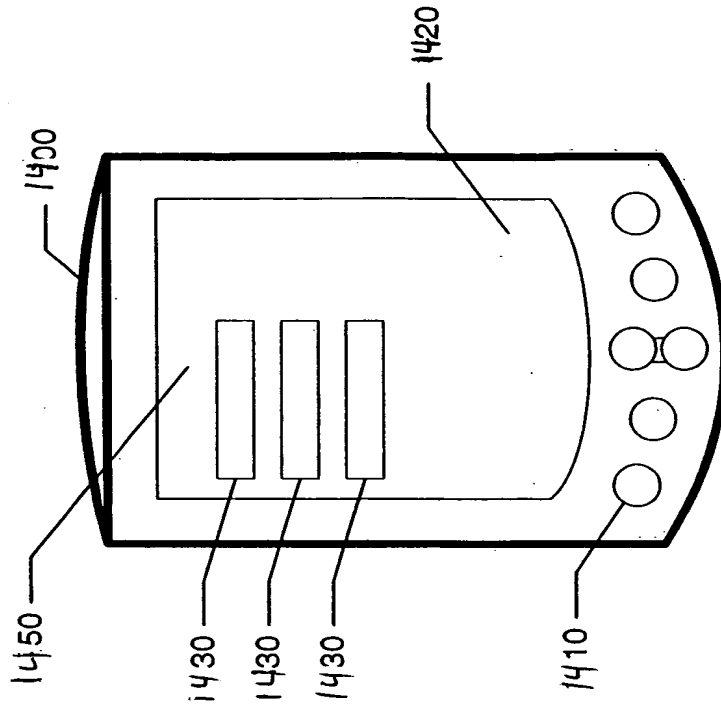


FIG. 14

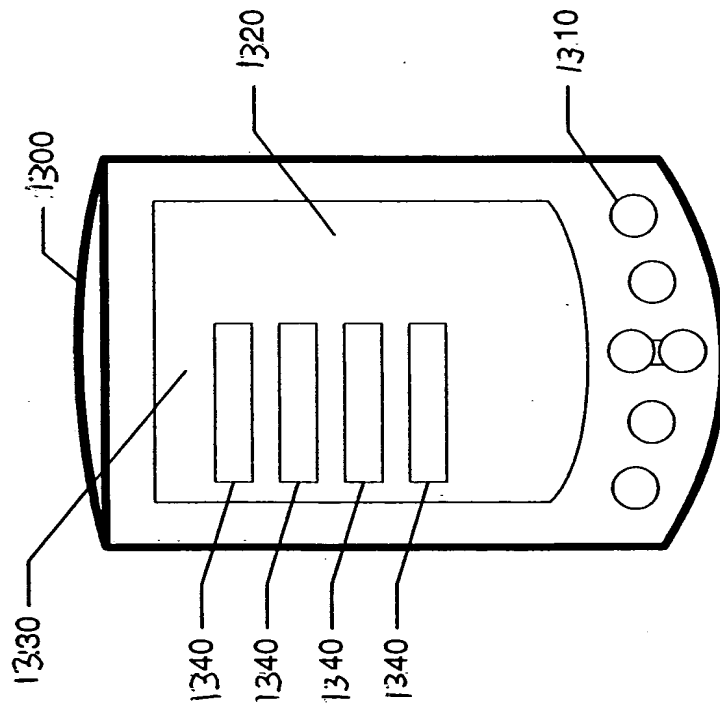
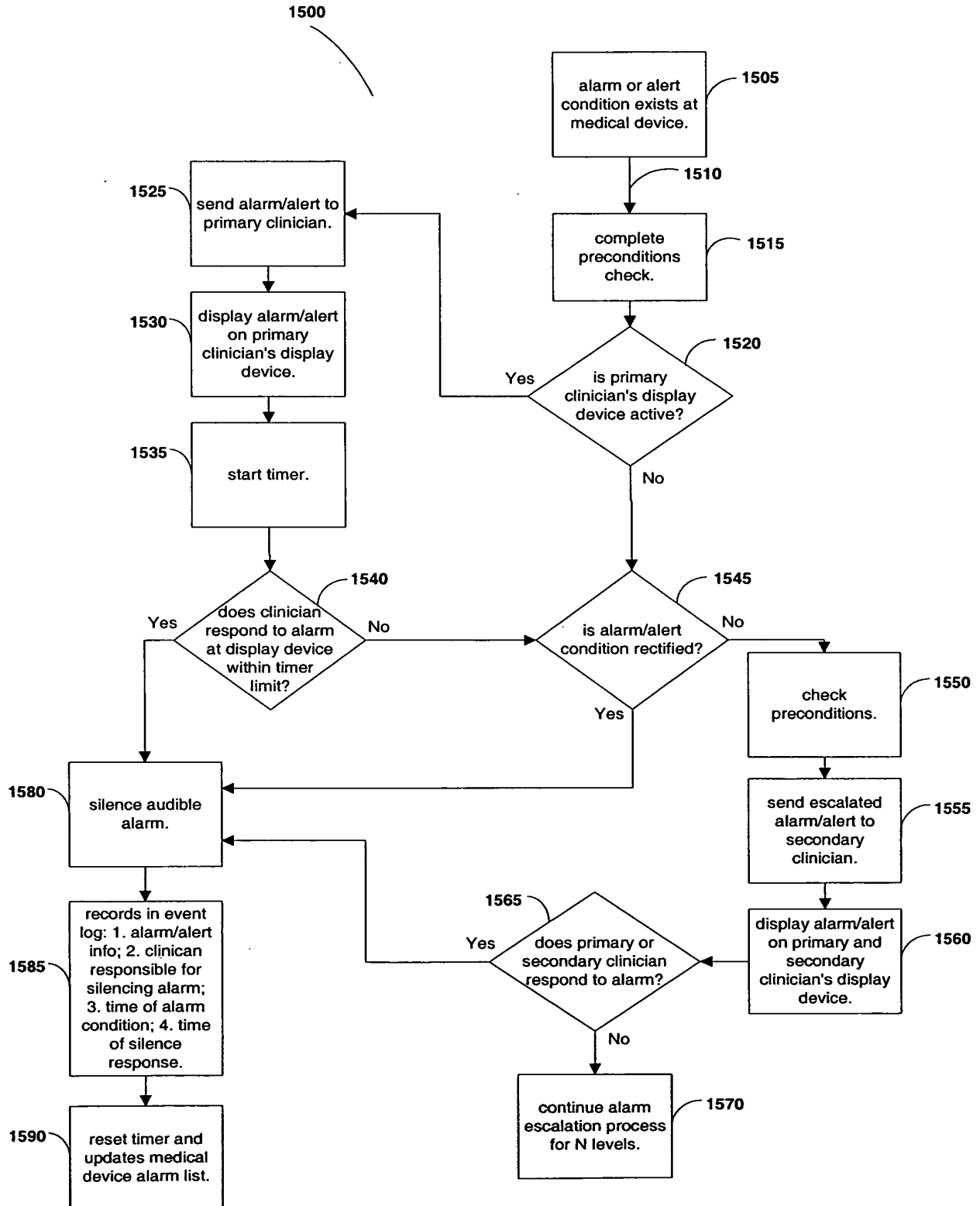


FIG. 13

FIG. 15



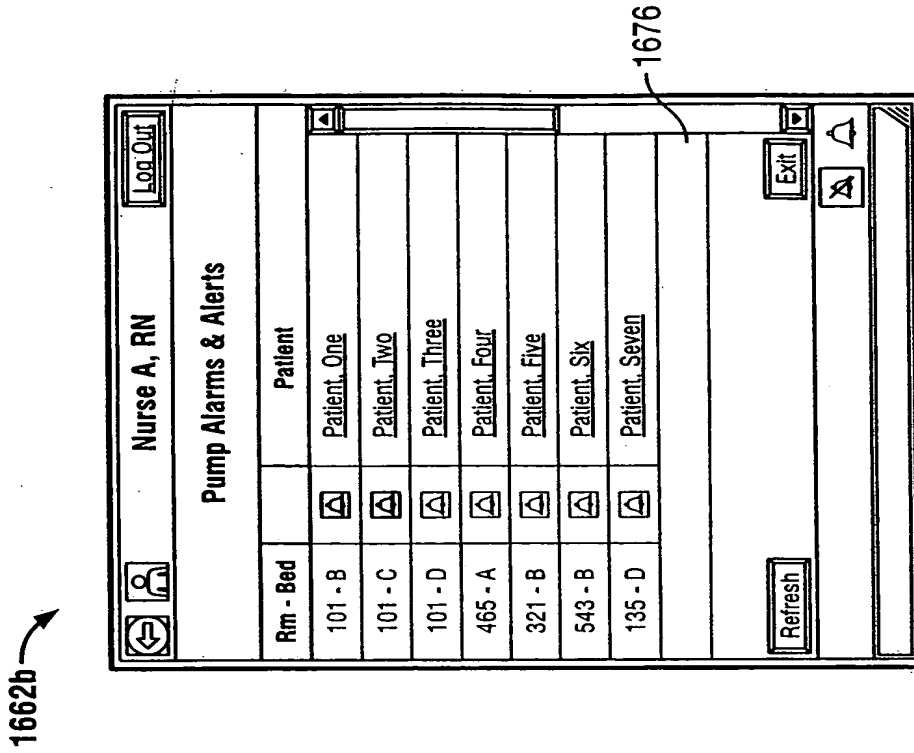


FIG. 16B

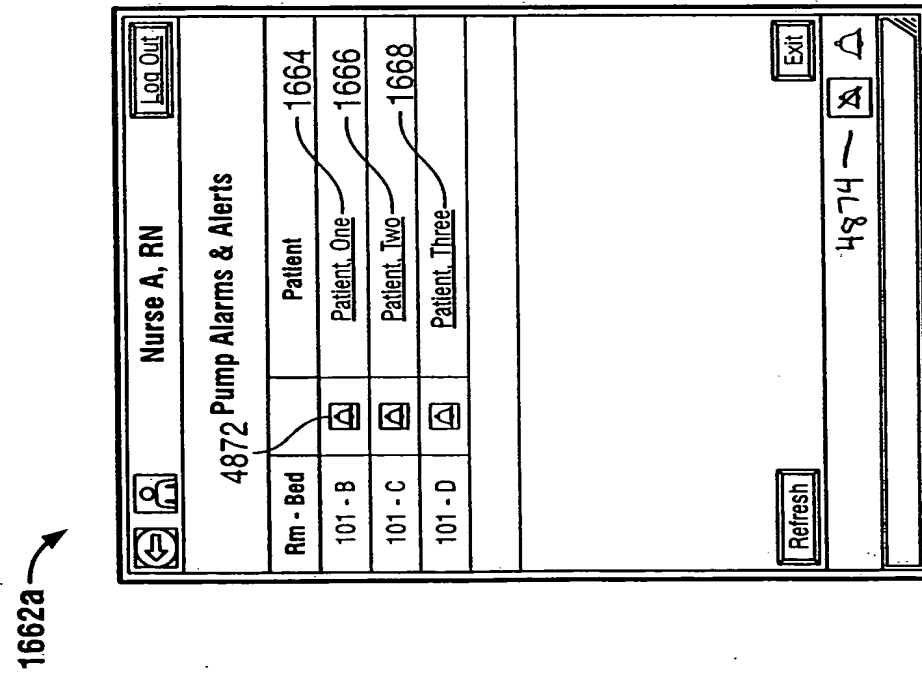











FIG. 16A

1867

**Nurse A, RN**

**Pump Alarms & Alerts**

Rm - Bed	Patient
101 - B	Patient One
 #1: Alarm message here	
Ancef 1 g, in Dextrose, 5% 50 m	
 #1: Alert message here	
Ancef 1 g, in Dextrose, 5% 50 m	






1878


1882





FIG. 18

1765

**Nurse A, RN**

**Pump Alarms & Alerts**

Rm - Bed	Patient
101 - B	Patient One
 #1: Alarm message here	
Ancef 1 g, in Dextrose, 5% 50 m	



4819

FIG. 17

2005 →

Patient Care System	
General Hospital	
User Name: Nurse A *	Password: ***** *
Login failed. Check User Name or Password.	
Login	

FIG. 20

1903 →

Patient Care System	
General Hospital	
User Name: Nurse A	Password: *****
Login	

FIG. 19



2211

Nurse A, RN

Log Out

Select WORK SHIFT

☒ Standard Shift

☐ Customize Shift

Time

Start: 18 30

Time

End: 00 00

2107

4809

2255

FIG. 22

2105

Nurse A, RN

Log Out

Select UNIT

Neurology ICU

2107

4809

FIG. 21

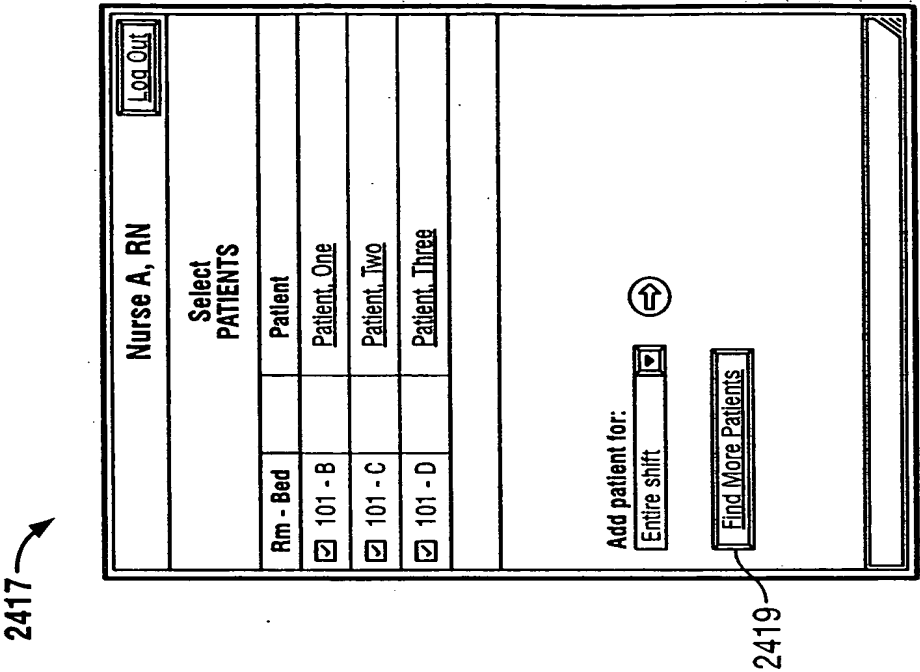


FIG. 24

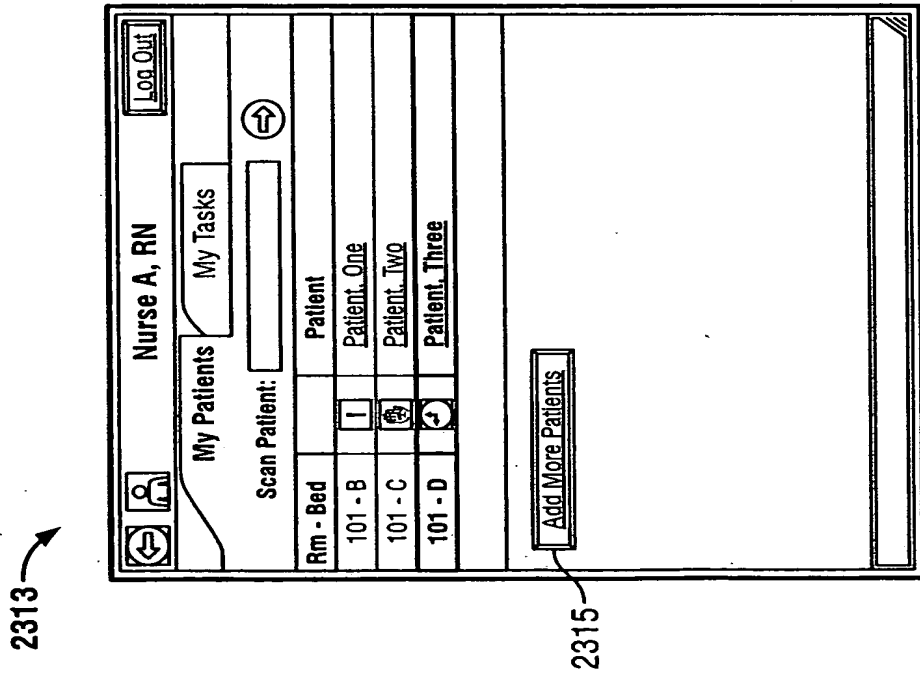




FIG. 23

2521



Nurse A, RN

Log Out

Patient, One - 101-B

Mini-Chart: Allergies(NKA)

Administer Meds/Infusions

STOP Infusion

RESUME Infusion

Titrate Infusion



Flow Rate History

Pump Status

Remove Patient from Shift

FIG. 25

2521a



Ninety-Three, James RN

Log Out

Ninety Nine, Douglas, Mr. (MDLOC1)  
MDUnit1: MDRoom1 - MD8ed1  
Dr.Ninety, Susan

Mini-Chart: Allergies

Allergies & Hx/Wt

Lab Results

Med Hx

Drug Allergy

Acetaminophen

General Allergy

Date Observed

Height

Weight

8-22 14:16

183.00 cm  
72.05 in.

85.00 Kg  
187.39 Lbs

Back

FIG. 25A

2521c

Ninety-Three, James RN  
Ninety- Nine, Douglas, Mr. (MDLOC1)  
MDUnit1: MDRoom1 - MDBed1  
Dr.Ninety, Susan

Log Out

Mini-Chart Allergies  
Allergies & Ht/Wt  
Med Hx  
Lab Results

Lab Test	Result	Range	H/I	Date
POTASSIUM	3.1	3.6-5 mmol/L	Normal	5/16/2003 9:00:00 AM

Back

FIG. 25C

2521b

Ninety-Three, James RN  
Ninety Nine, Douglas, Mr. (MDLOC1)  
MDUnit1: MDRoom1 - MDBed1  
Dr.Ninety, Susan

Log Out

Mini-Chart Allergies (NKA)  
Allergies & Ht/Wt  
Med Hx  
Lab Results

All ☒ Scheduled ☐ PRN ☐  
Look Back Period: 24 hours

Order  
Acetaminophen Cap 500 MG  
500 MG = 1 CAP  
Oral  
TID  
Admin Date: 6-3 12:53  
Patient Refused  
More...

Back

FIG. 25B

2627

Nurse A, RN Log Out

Patient, One - 101-B

Mini-Chart: Allergies (NKA)

MA-Continuous Infusion  
 Dextrose 5% W/Sodium Chloride 0.45%  
 200 ML  
 Route: Intravenous  
 Flow Rate: 50 ML/H  
 Estimated Admin. Period: 4 Hours

Warning: Wear Gloves

Show Edubyte info here

RX not previously administered  
 Start Time: 6-2 14:54  
 End Time: 7-7 14:54

2629

FIG. 26A

2623

Nurse A, RN Log Out

Patient, One - 101-B

Mini-Chart: Allergies (NKA)

< 10:19 - 12:19 - ≥

SCHED 13

Time	Med	Last
11:30	MORPHINE SULFATE Continuous Infusion	12-9 2:00
13:30	Continuous Infusion (De)	NR
15:30	Continuous Infusion (De)	NR
17:30	Continuous Infusion (De)	NR

2625

FIG. 26

2727b

←

⏏

Log Out

Ninety-Three, James RN

WORKFLOW INFUSION: STOP

Ninety-Six, Samuel, Mr. MDRoom1-MDBed1

Mini-Chart: Allergies

Continuous Infusion

Dextrose Inj 20%

500 ML

Route: Intravenous Flow Rate: 125 ML/H

Estimated Administration Period: 4 Hours

Please select a reason for Stop Infusion

Discontinue order in system

Stop Time [M/D/Y HH:MM]

06/18/2003 15 23

⏏

Cancel

Back to Patient list

FIG. 27B

2727a

←

⏏

Log Out

Ninety-Three, James RN

WORKFLOW INFUSION: STOP

Ninety-Six, Samuel, Mr. MDRoom1-MDBed1

Mini-Chart: Allergies

Scan Item:

Continuous Infusion

Dextrose Inj 20%

500 ML

Route: Intravenous Flow Rate: 125 ML/H

Estimated Administration Period: 4 Hours

Order has been DC'd

Back to Patient list

FIG. 27A

2727d

		Ninety-Three, James RN	
<b>WORKFLOW INFUSION: RESUME</b> Ninetyfour-Pointfive, Fred, Mr. MDRoom1 - MDBed1 Mini-Chart: Allergies (Not Specified)			
Continuous Infusion Dextrose Inj 20% 500 ML Route: Intravenous Flow Rate: 125 ML/H Estimated Administration Period: 4 Hours			
Stopped w/o Order Please select a reason for Resume Infusion			
<input type="button" value="Site re-established"/>			
<input type="button" value="Cancel"/>			
<input type="button" value="Back to Patient list"/>			

4809

FIG. 27D

2727C

		Ninety-Three, James RN	
<b>WORKFLOW INFUSION: RESUME</b> Ninetyfour-Pointfive, Fred, Mr. MDRoom1 - MDBed1 Mini-Chart: Allergies (Not Specified)			
Scan Item: <input type="text"/>			
Continuous Infusion Dextrose Inj 20% 500 ML Route: Intravenous Flow Rate: 125 ML/H Estimated Administration Period: 4 Hours Stopped w/o Order			
<input type="button" value="Back to Patient list"/>			

FIG. 27C

2941

Nurse A, RN

Log Out

Patient, One - 101-B

Mini-Chart : Allergies (NKA)

☒ Missed Medication

Please select a reason for LATE:

2943

☐ Adjust schedule for :

MORPHINE SULFATE  
Continuous Infusion  
60 MG = 30 ML  
Route: Injection  
Flow Rate: 30 ML/H  
Estimated Admin. Period: 1 Hour

FIG. 29

2835

Nurse A, RN

Log Out

Patient, One - 101-B

Mini-Chart : Allergies (NKA)

< - 10:19 - 12:19 - >

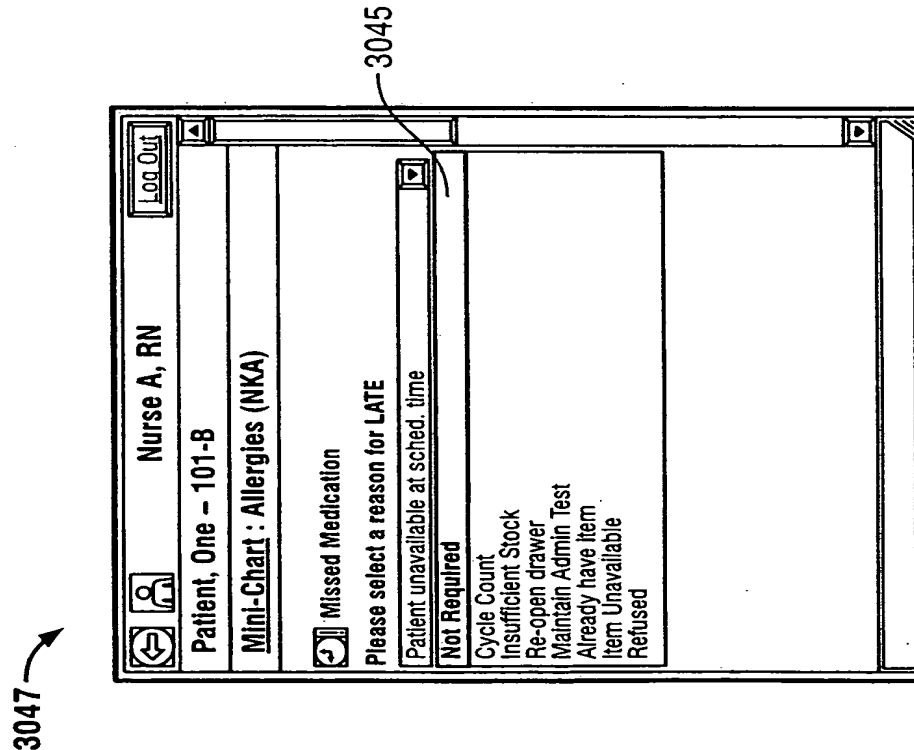
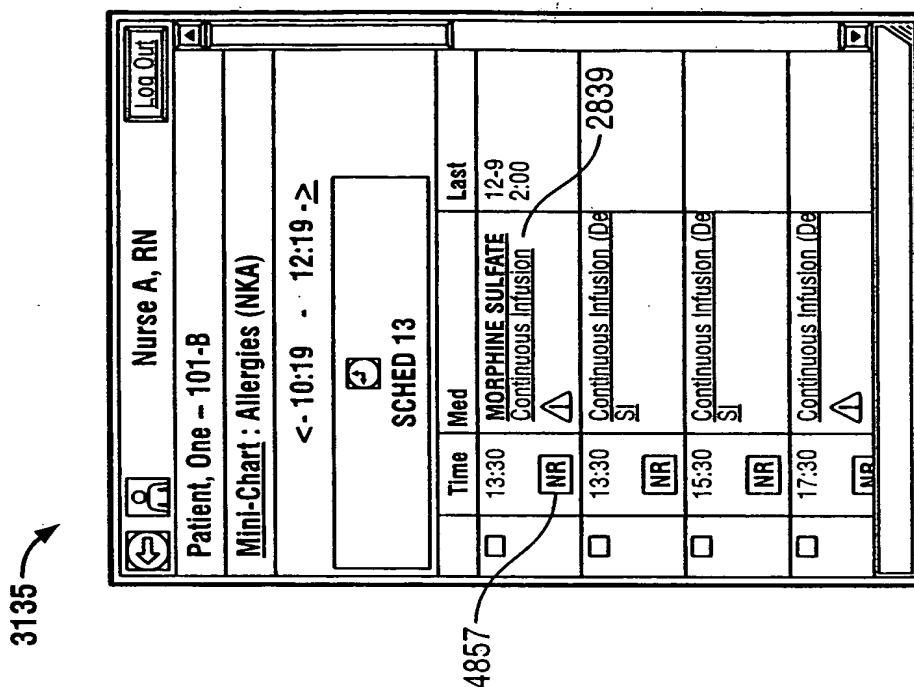
☒ SCHED 13

Time	Med	Last
<input checked="" type="checkbox"/> 13:30	MORPHINE SULFATE Continuous Infusion	12-9 2:00
<input type="checkbox"/> 13:30	Continuous Infusion (De	
<input type="checkbox"/> 15:30	Continuous Infusion (De	
<input type="checkbox"/> 17:30	Continuous Infusion (De	

2839

FIG. 28





3351

3353

3355

Log Out

Nurse A, RN

Patient, One - 101-B

Mini-Chart : Allergies (NKA)

Scan Depot:

Search Items

Item	DepotUnit	Qty
Morphine Sulfate Inj	In other	
2 MG/ML QA	units	
Morphine Sulfate Inj	In other	
2 MG/ML QA	units	

Skip Scan Depot

FIG. 33

3235

3225

3249

Log Out

Nurse A, RN

SCHED 13

Time	Med	Last
11:30	MORPHINE SULFATE Continuous Infusion	12/9 2:00
13:30	Continuous Infusion (De SI	
15:30	Continuous Infusion (De SI	
17:30	Continuous Infusion (De SI	

Get Items

FIG. 32

3569

3569

Nurse A, RN

Patient, One - 101-B

Mini-Chart : Allergies (NKA)

Scan Depot:

Scan code is invalid.

Item	DepotUnit	Qty
Morphine Sulfate Inj	In other	
2 MG/ML QA	units	
Morphine Sulfate Inj	In other	
2 MG/ML QA	units	

FIG. 35

3465

3465

Nurse A, RN

Patient, One - 101-B

Mini-Chart : Allergies (NKA)

Scan Item:

MORPHINE SULFATE  
Continuous Infusion  
60 MG = 30 ML  
Route: Injection  
Flow Rate: 30 ML/H  
Estimated Admin. Period: 1 Hour

Quantity:  30 ML(s)  
Get: 30 ML

Warning: Wear Gloves  
 Show Edubyte Info here

3467

FIG. 34

3771 →

⏪	⏩	Nurse C, RN	Log Out
Patient, Three, Mr. 100-C			
Mini-Chart : Allergies			
Verify Route, Line & Site			
Rx Sodium Chloride 0.9% Continuous Infusion Rx Sodium Chloride 0.9% 1000 ML Route: Intravenous Flow Rate: 50 ML/H Estimated Administration Period: 20 Hours 3778			
Please hang the bag, program the pump and record the following information but DO NOT start the pump channel until instructed:			
Route: Intramuscular		3773	
Line: Central		3775	
Site: Right Forearm		3777	
Compare Route			

4817

FIG. 37

3657 →

⏪	⏩	Nurse A, RN	Log Out
Patient, One - 101-B			
Mini-Chart : Allergies (NKA)			
Scan Patient:	3661		
If Cannot admin, select a reason:			
3659			
Not Req Due to Monitoring Result			
Patient Unavailable			
Refused			
Waste/Return			

3663

FIG. 36

3885

		Nurse C, RN	
Patient, Three, Mr. 100-C			
Mini-Chart : Allergies			
Scan Pump Channel			
Rx Sodium Chloride 0.9% Continuous Infusion Rx Sodium Chloride 0.9% 1000 ML Route: Intravenous Flow Rate: 50 ML/H Estimated Administration Period: 20 Hours			
		Scan Pump Channel *****	

4809

FIG. 38A

3881

		Nurse C, RN	
Patient, Three, Mr. 100-C			
Mini-Chart : Allergies			
Select Pump Channel Mode			
Rx Sodium Chloride 0.9% Continuous Infusion Rx Sodium Chloride 0.9% 1000 ML Route: Intravenous Flow Rate: 50 ML/H Estimated Administration Period: 20 Hours			
Select Pump Channel Mode:			
Primary		Playback	

3882

3884 3883

FIG. 38

3987

Nurse A, RN

Log Out

Patient, One  
Rm - Bed 101-B  
Dr. One (111)111-1111 ext. 1

Pharm & Pump Comparison

Ancef 1 g, in Dextrose, 5% 50 mL  
run at 100 mL/hr

	Pharm Label	=	Pump Settings
	Rate		100 mL/hr

Comparison MATCHES.  
Press "Start" Key on pump.

OK

FIG. 39A

3986

Nurse C, RN

Log Out

Patient, Three, Mr.  
1 West: 100-C  
MD1, Test

Pharm & Pump Comparison

Continuous Infusion Rx Sodium Chloride 0.9% 1000 ML Route:  
Intravenous Flow Rate: 60 ML/H Estimated Administration  
Period: 20 Hours

Program the Pump Channel and:  
> If this is a PRIMARY -  
Click COMPARE below Now and  
wait until instructed to start pump channel.  
> If this is a PIGGYBACK --  
Press the "start" key on the  
pump Now, then Click COMPARE  
If Piggyback Infusion, ensure PRIMARY is placed LOWER THAN  
than PIGGYBACK and that PIGGYBACK roller clamp is OPEN.

Compare

4817

FIG. 39

4187

<div> </div>		Nurse A, RN		<div>Log Out</div>						
Patient, One Rm - Bed 101-B Dr. One (111)111-1111 ext. 1										
Pharm & Pump Comparison										
Ancef 1 g, in Dextrose, 5% 50 mL run at 100 mL/hr										
<table border="1"> <tr> <td>Pharm Label</td> <td>?</td> <td>Pump Settings</td> </tr> <tr> <td>Rate</td> <td>100 mL/hr</td> <td>? mL/hr</td> </tr> </table>		Pharm Label	?	Pump Settings	Rate	100 mL/hr	? mL/hr	Cannot Compare. Press "Rate" key and COMPARE.		
Pharm Label	?	Pump Settings								
Rate	100 mL/hr	? mL/hr								
<div> <div>COMPARE</div> </div>										

4817

FIG. 41

4087

<div> </div>		Nurse A, RN		<div>Log Out</div>						
Patient, One Rm - Bed 101-B Dr. One (111)111-1111 ext. 1										
Pharm & Pump Comparison										
Ancef 1 g, in Dextrose, 5% 50 mL run at 100 mL/hr										
<table border="1"> <tr> <td>Pharm Label</td> <td>≠</td> <td>Pump Settings</td> </tr> <tr> <td>Rate</td> <td>100 mL/hr</td> <td>50 mL/hr</td> </tr> </table>		Pharm Label	≠	Pump Settings	Rate	100 mL/hr	50 mL/hr	Please Verify with PHYSICIAN Order. Then to accept the mismatch, press "Start" key on pump and then click "OK" below. You can also reprogram the pump and then click "Compare again."		
Pharm Label	≠	Pump Settings								
Rate	100 mL/hr	50 mL/hr								
<div> <div>OK</div> <div>Compare again</div> </div>										

4825

4817

FIG. 40

4391

4807

4819

Log Out

Nurse A, RN

Patient, One  
 Rm - Bed 101-B  
 Dr. One (111)111-1111 ext. 1

Pump Status

△ Ancef 1 g, in Dextrose, 5% 50 mL  
 run at 100 mL/hr

Rate	60 mL/h
Volume Infused	5 mL
Volume Remaining	45 mL
Time Remaining	45 min.

\*NOTE: Pump Override Accepted

Refresh

Exit

FIG. 43

4287

4817

Log Out

Nurse A, RN

Patient, One  
 Rm - Bed 101-B  
 Dr. One (111)111-1111 ext. 1

Pharm & Pump Comparison

Ancef 1 g, in Dextrose, 5% 50 mL  
 run at 100 mL/hr

Pharm Label	Pump Settings
Rate	100 mL/hr
	? mL/hr

Cannot Compare. Press "Start" key on pump and click COMPARE, to retry comparison.

COMPARE

FIG. 42



4501

Nurse A, RN

Log Out

**Communication Loss Alert**  
for the following Patients

Rm - Bed		Patient
101 - B	<input checked="" type="checkbox"/>	Patient_One
101 - C	<input checked="" type="checkbox"/>	Patient_Two
101 - D	<input checked="" type="checkbox"/>	Patient_Three

**Trouble Shooting Tips:**  
If a Yellow light is flashing on the  
WIRELESS MODULE and it is beeping,  
the system may be down. Call IT or  
Blomed.  
- OR -  
Plug in and turn on all pumps.  
If that does not resolve the problem,  
Call IT or Blomed.

FIG. 45A

4493

Nurse A, RN

Log Out

Patient, One  
Rm - Bed 101-B  
Dr. One (111)111-1111ext. 1

**Flow Rate History**  
Ancel 1 g, in Dextrose, 5% 50 mL  
run at 100 mL/hr  
60 mL/h @ 10:55 AM 3/13  
70 mL/h @ 10:55 AM 3/13  
80 mL/h @ 10:54 AM 3/13

Refresh

Exit

FIG. 44

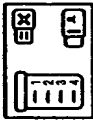
4603

**Nurse A, RN**

**Low Battery Alert**  
for the following Patients

Rm - Bed	Patient
101 - B	Patient One

Less than 30 minutes of battery left in WIRELESS MODULE.



Plug WIRELESS MODULE into power outlet.

FIG. 46

4501

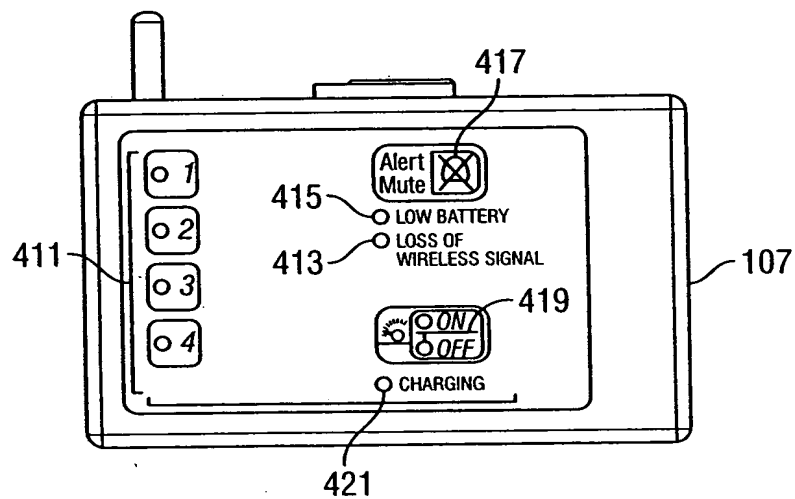
**Nurse A, RN**

**Communication Loss Alert**  
for the following Patients

Rm - Bed	Patient
101 - D	Patient Three

**Trouble Shooting Tips:**  
If a Yellow light is flashing on the WIRELESS MODULE and it is beeping, the system may be down. Call IT or Biomed.  
- OR -  
Plug in and turn on all pumps. If that does not resolve the problem, Call IT or Biomed.

FIG. 45B



**FIG. 47**

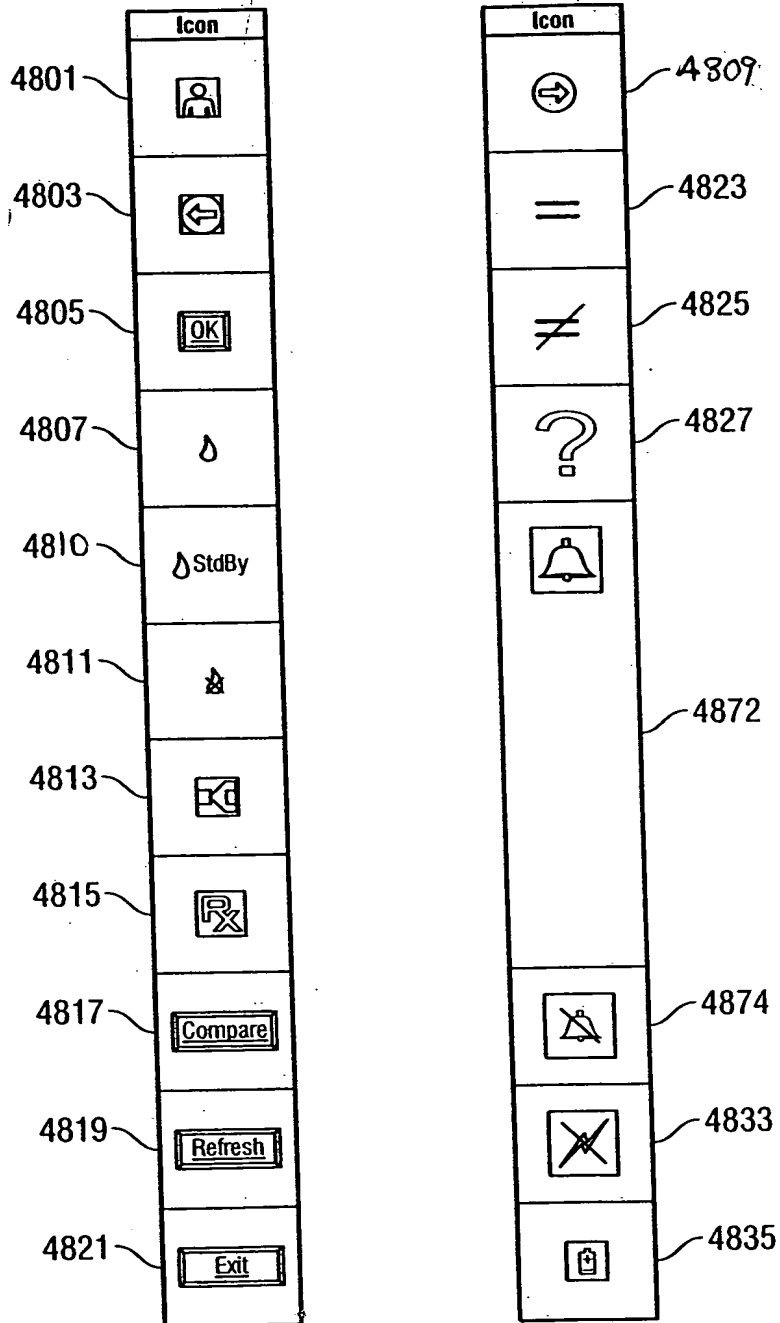


FIG. 48

4937

Nurse A, RN

Patient, One - 101-B

Mini-Chart : Allergies (NKA)

Record Admin Result

Please select Admin Result:

MORPHINE SULFATE

Continuous Infusion

60 MG = 30 ML

Route: Injection

Flow Rate: 30 ML/H

Estimated Admin. Period: 1 Hour

5003

Ninety - Three, James RN

Ninety-Six, Samuel, Mr.MDRoom1-MDBed1

Mini-Chart : Allergies (NKA)

Monitoring Parameters

Blood Pressure

Mm/Hg.

Save

Back

5001







FIG. 49

	Time	Med	Last
<input type="checkbox"/>	14:39	Diazin Tab 0.125 MG 0.125 MG = 1 TAB Oral QD q	
	NR	MP	

FIG. 50

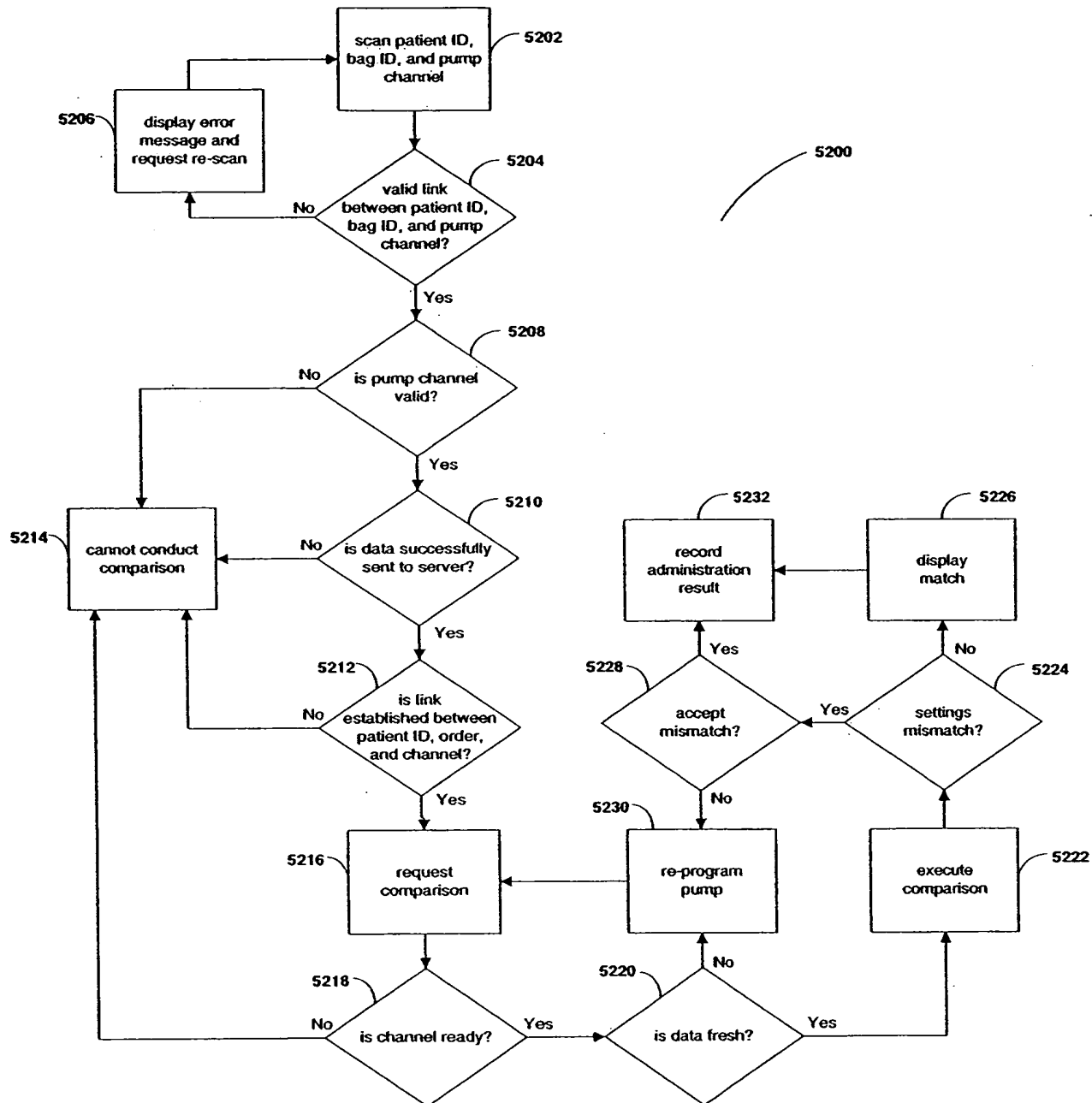
FIG. 50A

5101 →

		<b>Ninety-Three, James RN</b>	
<b>Eightytwo, Anthony, MDRoom1-MDDefaultBed</b>			
<u>Mini-Chart: Allergies</u>			
ACETAMINOPHEN/CODEINE #4 Acetaminophen w/ Codeine Tab 300-60 MG 60 MG = 1 TAB Oral QID			
Drawer 1, Bin 05			
Count before the removal of medication(first count)			
Qty on hand:			
<input type="text"/>		TAB(s)	
			
			
			

**FIG. 51**

FIG. 52



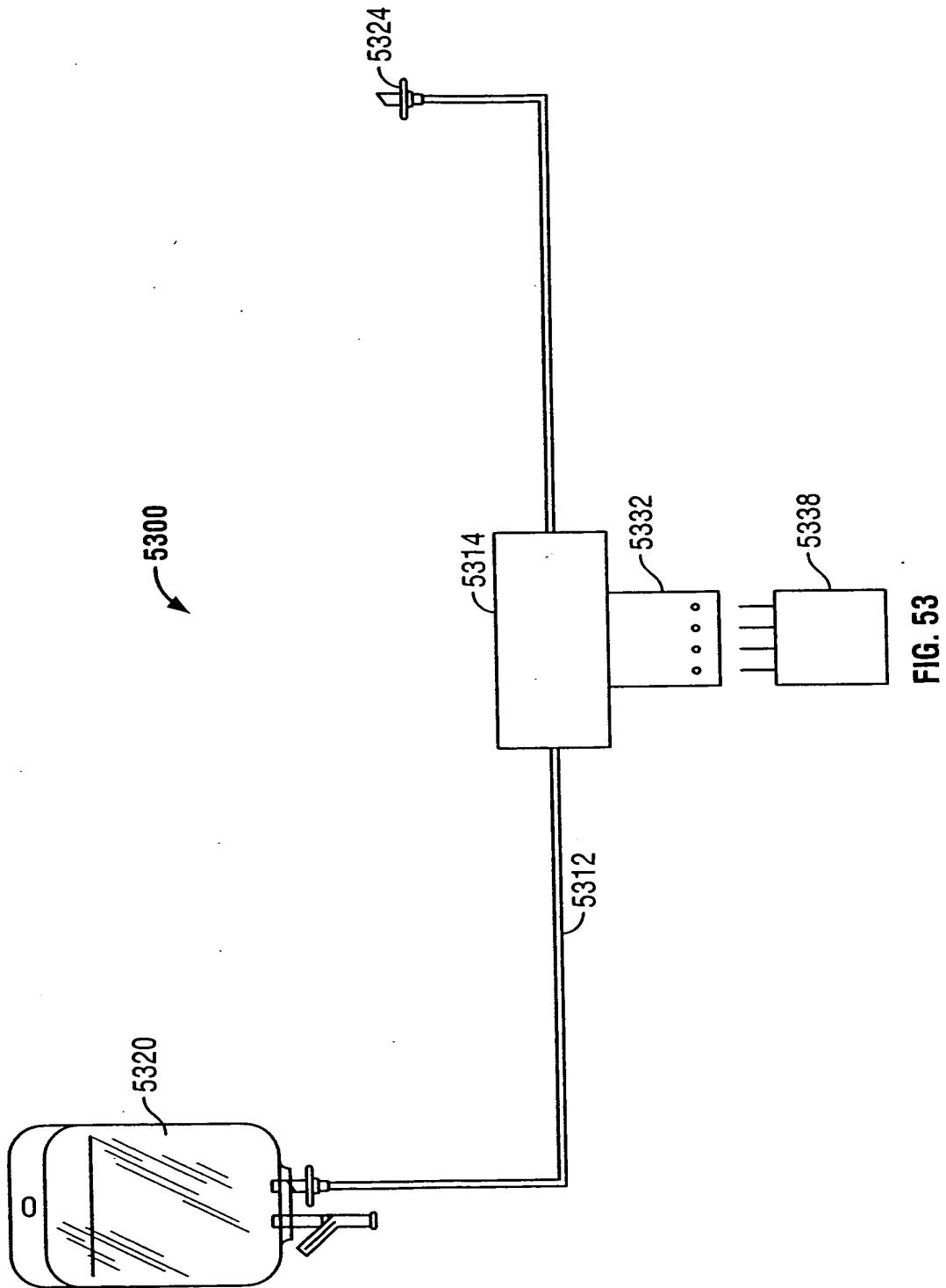
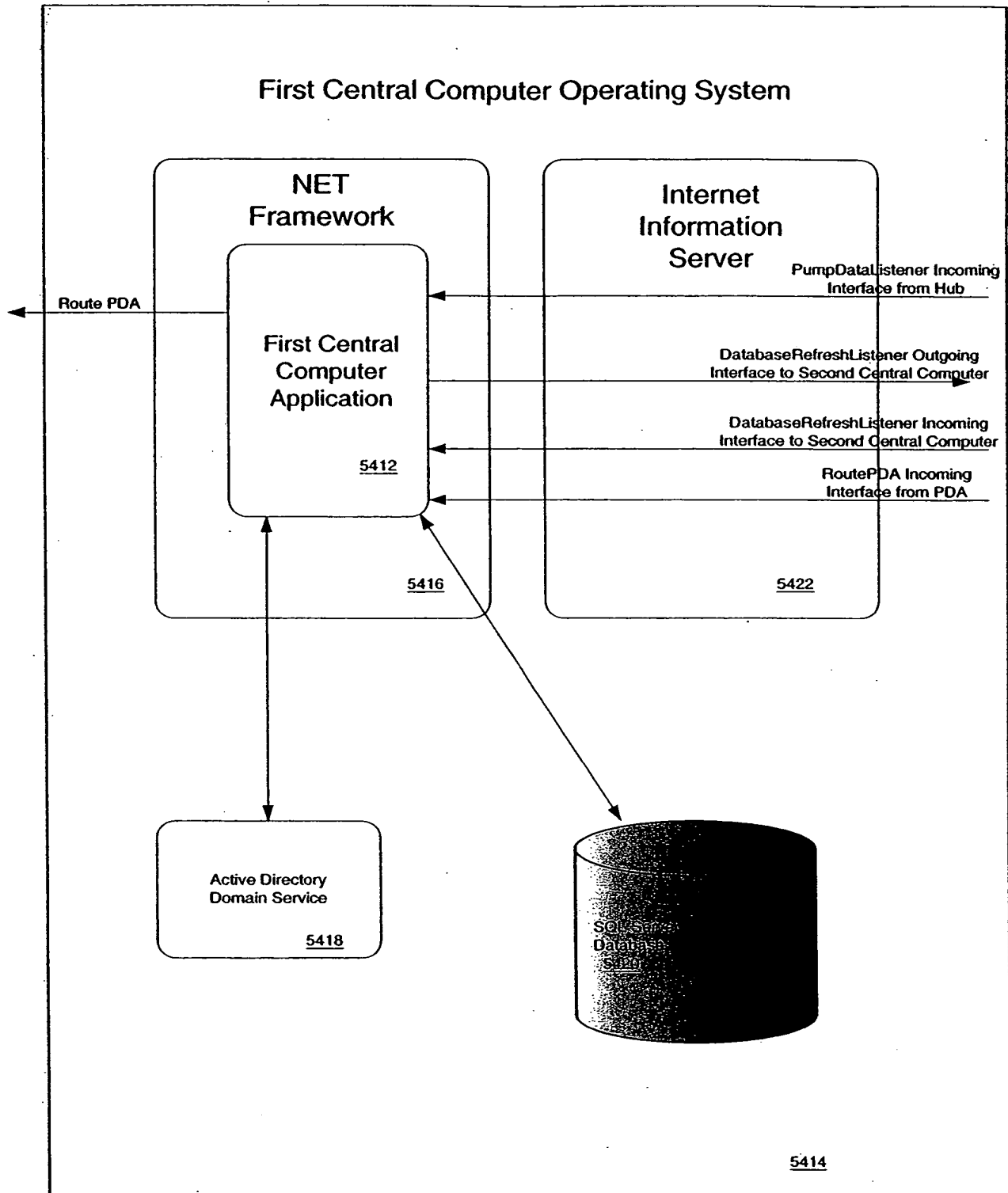


FIG. 53





**FIG. 54**

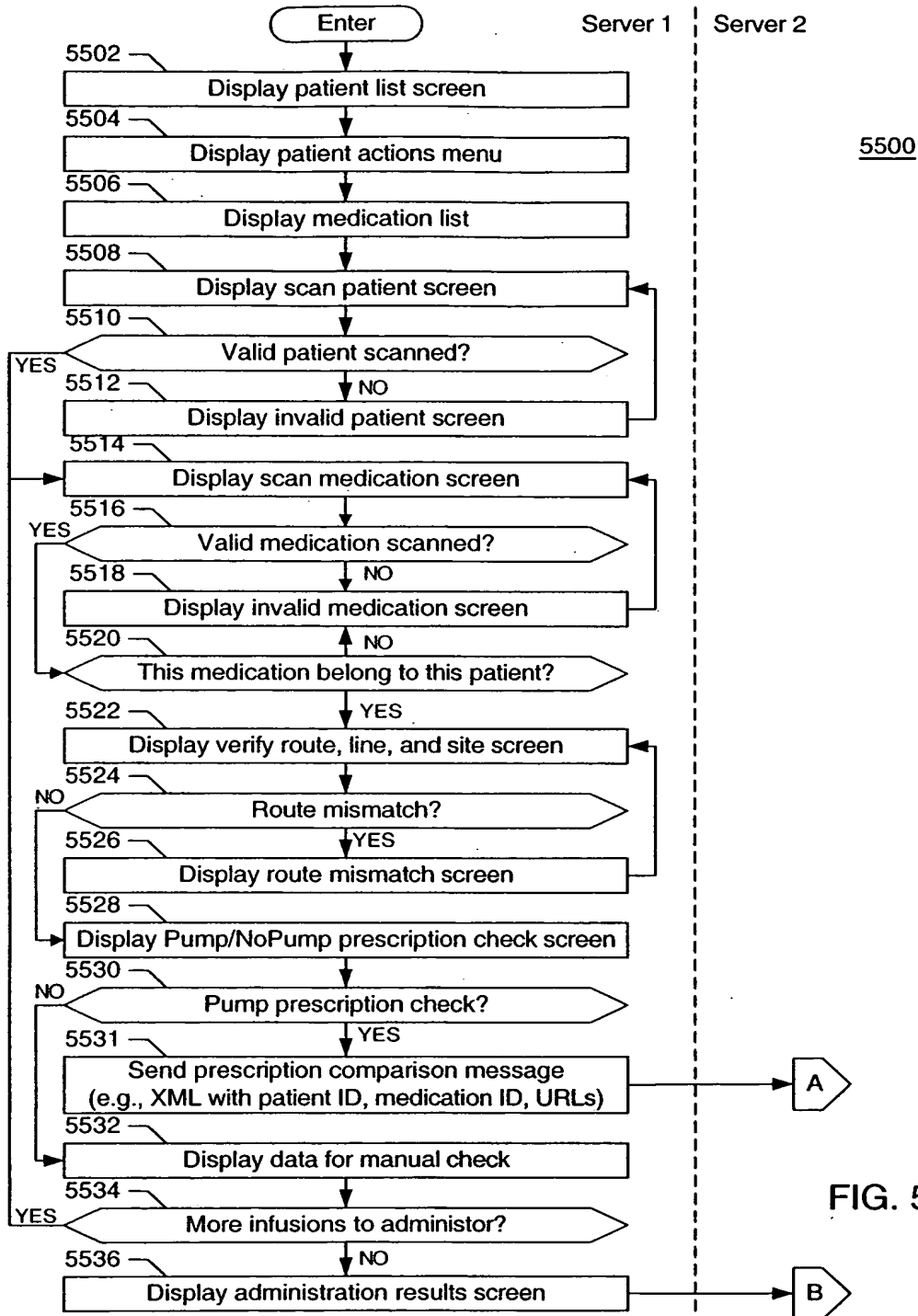


FIG. 55B

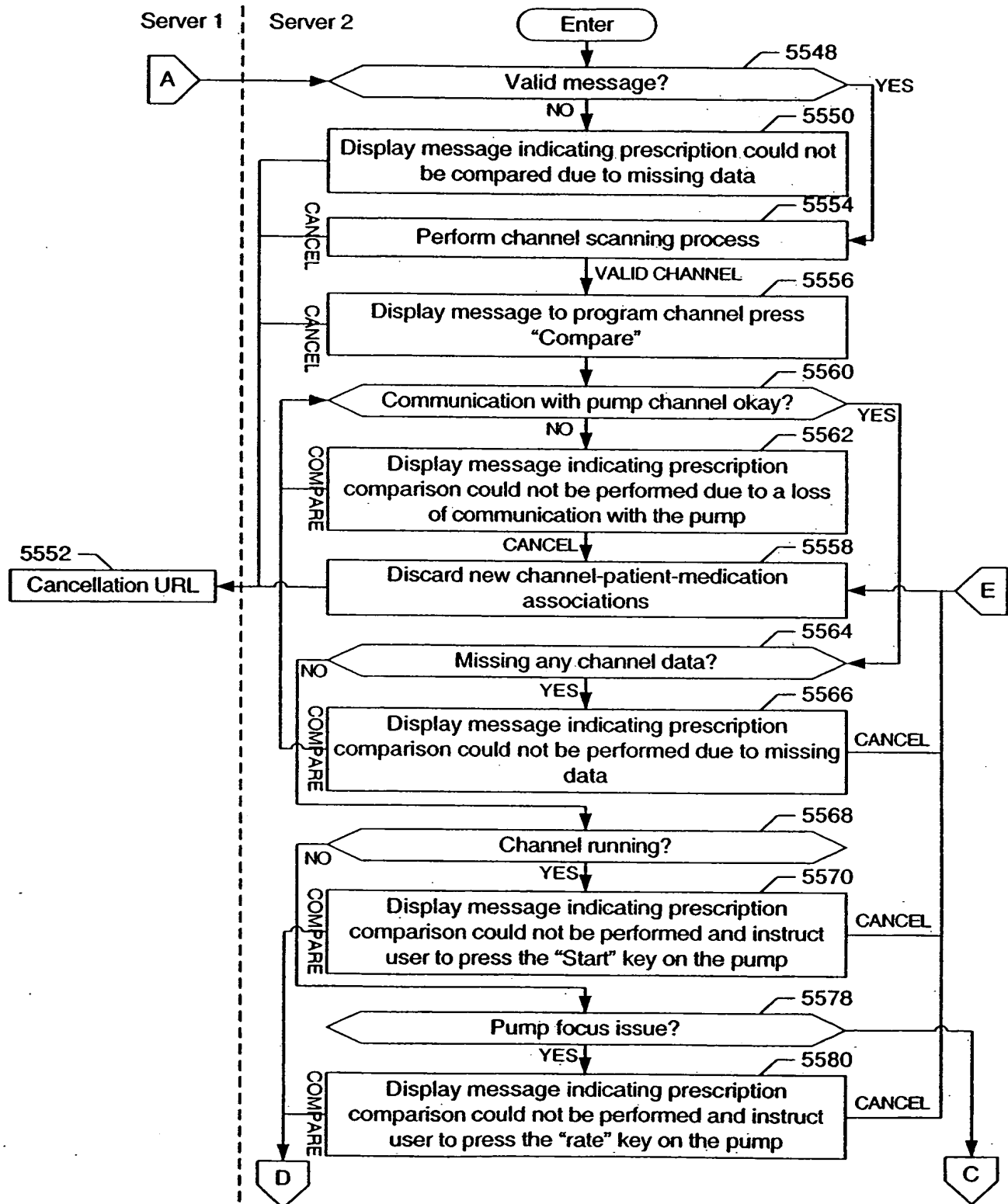
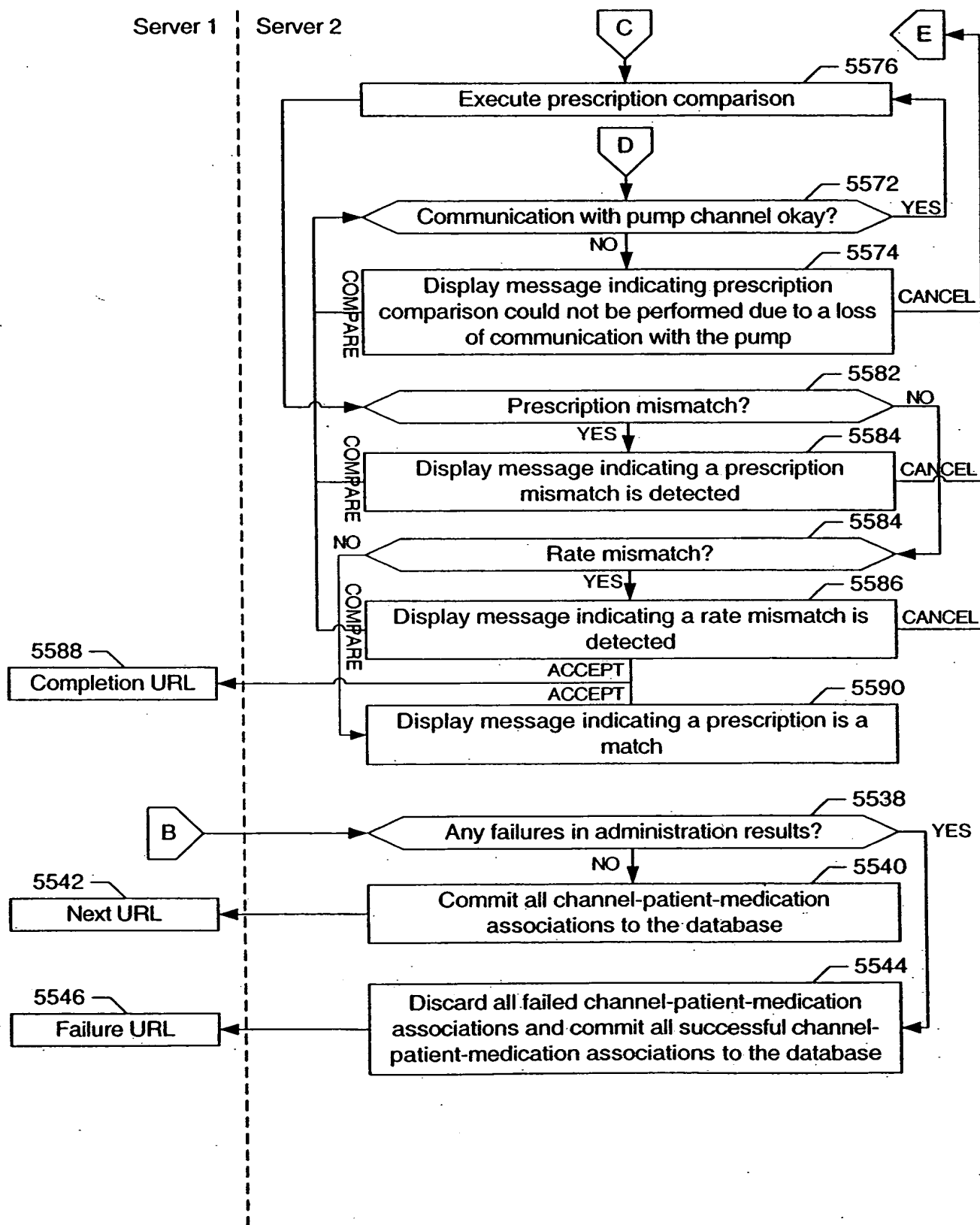


FIG. 55C



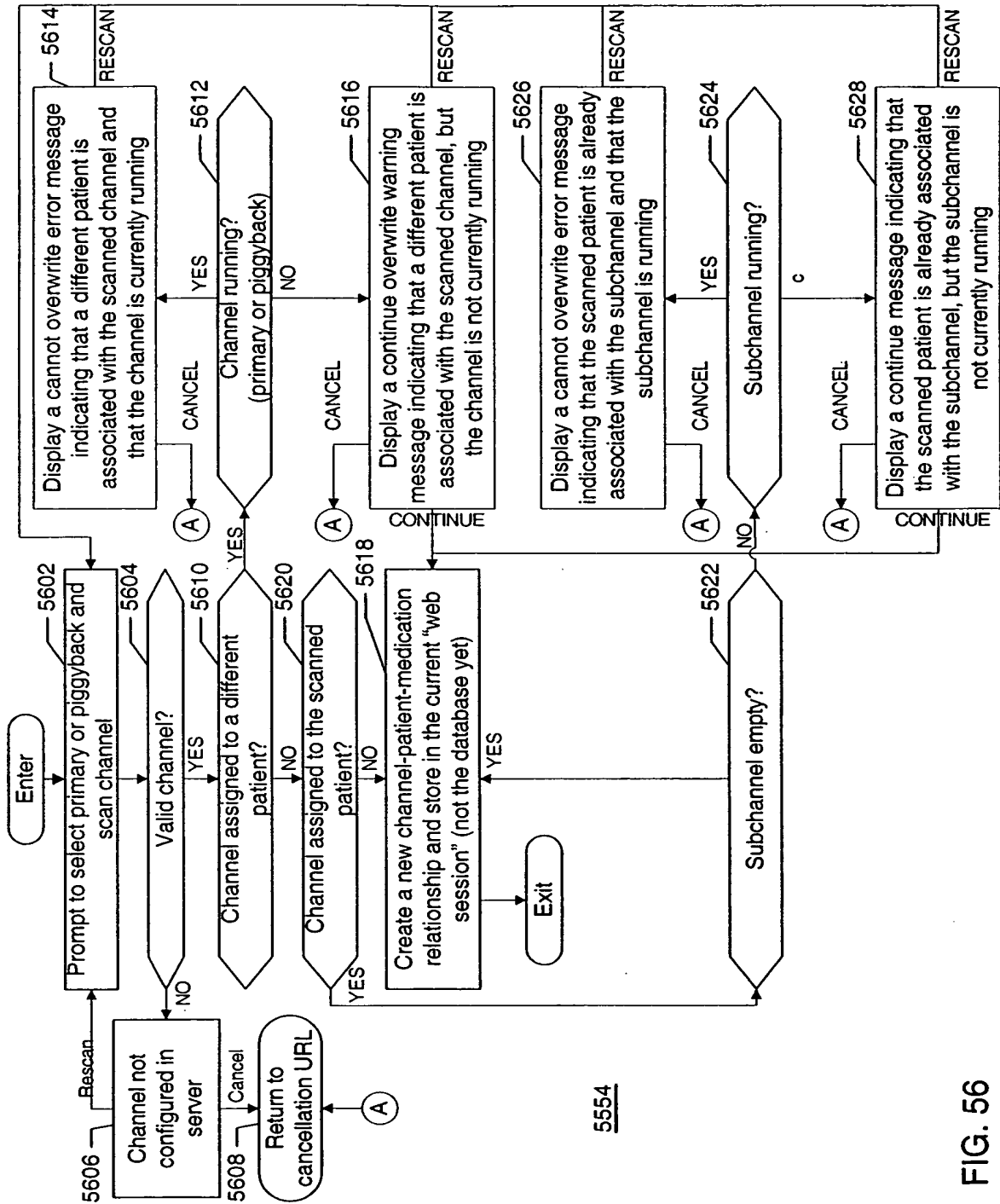


FIG. 56

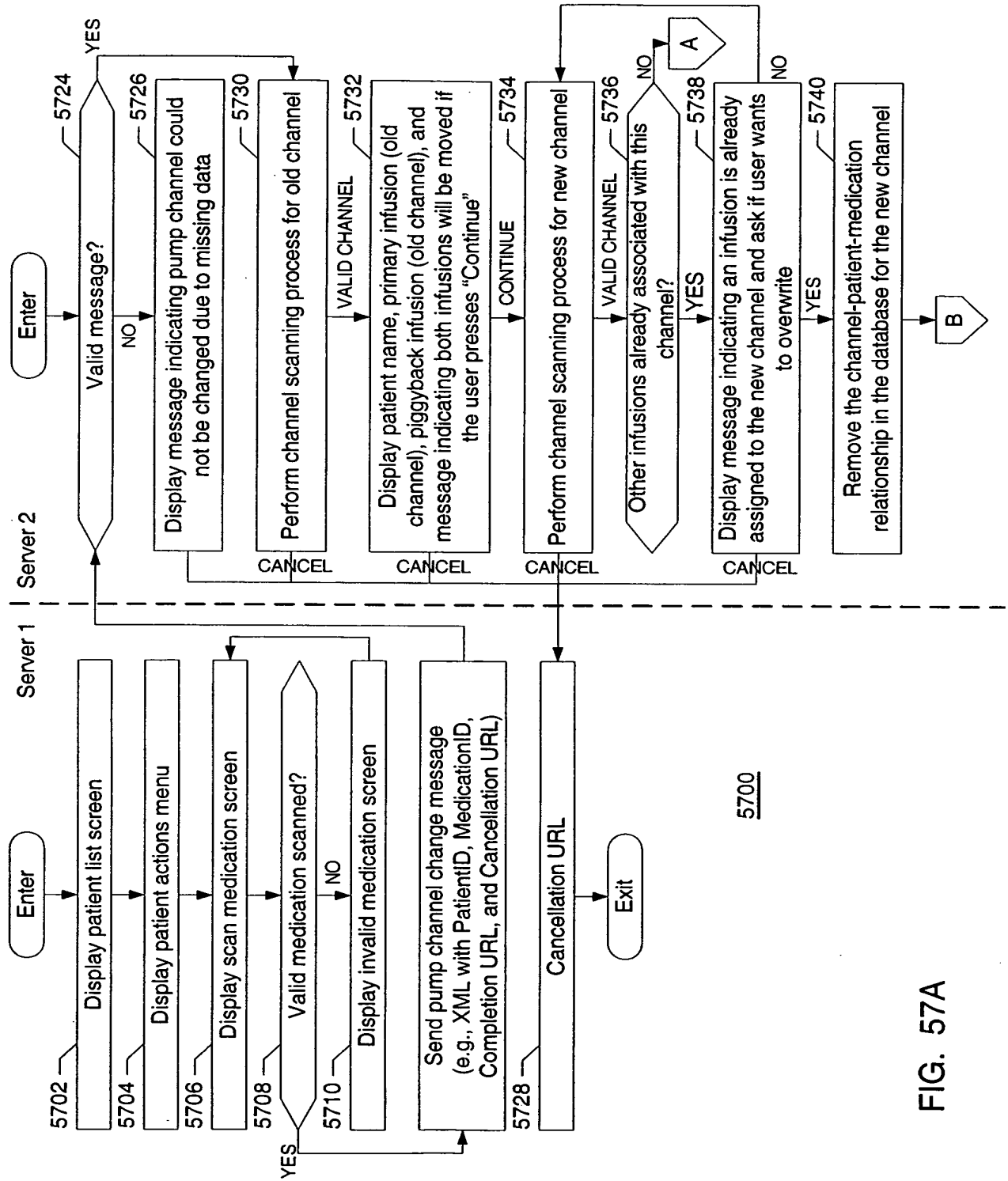


FIG. 57A

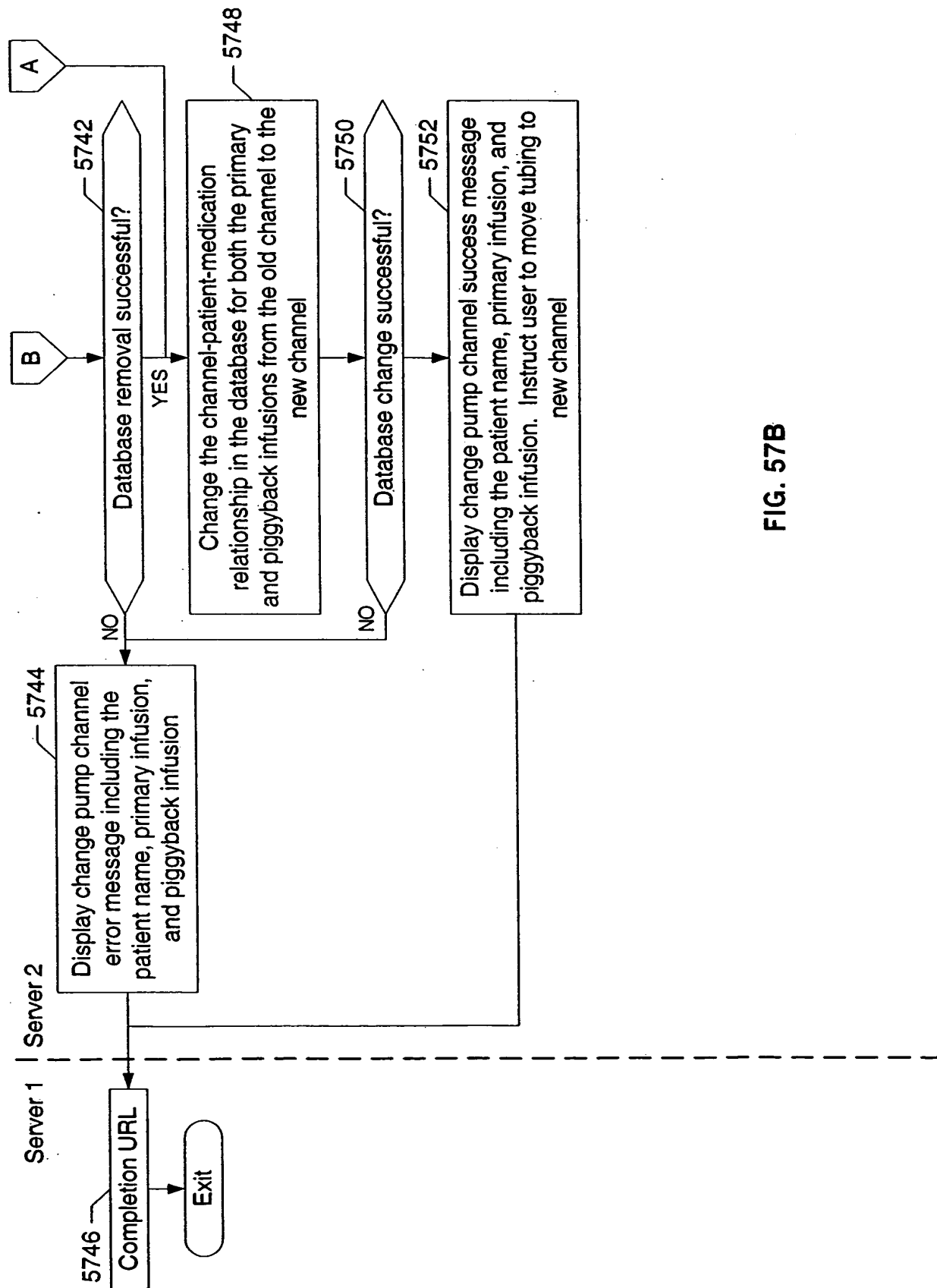


FIG. 57B

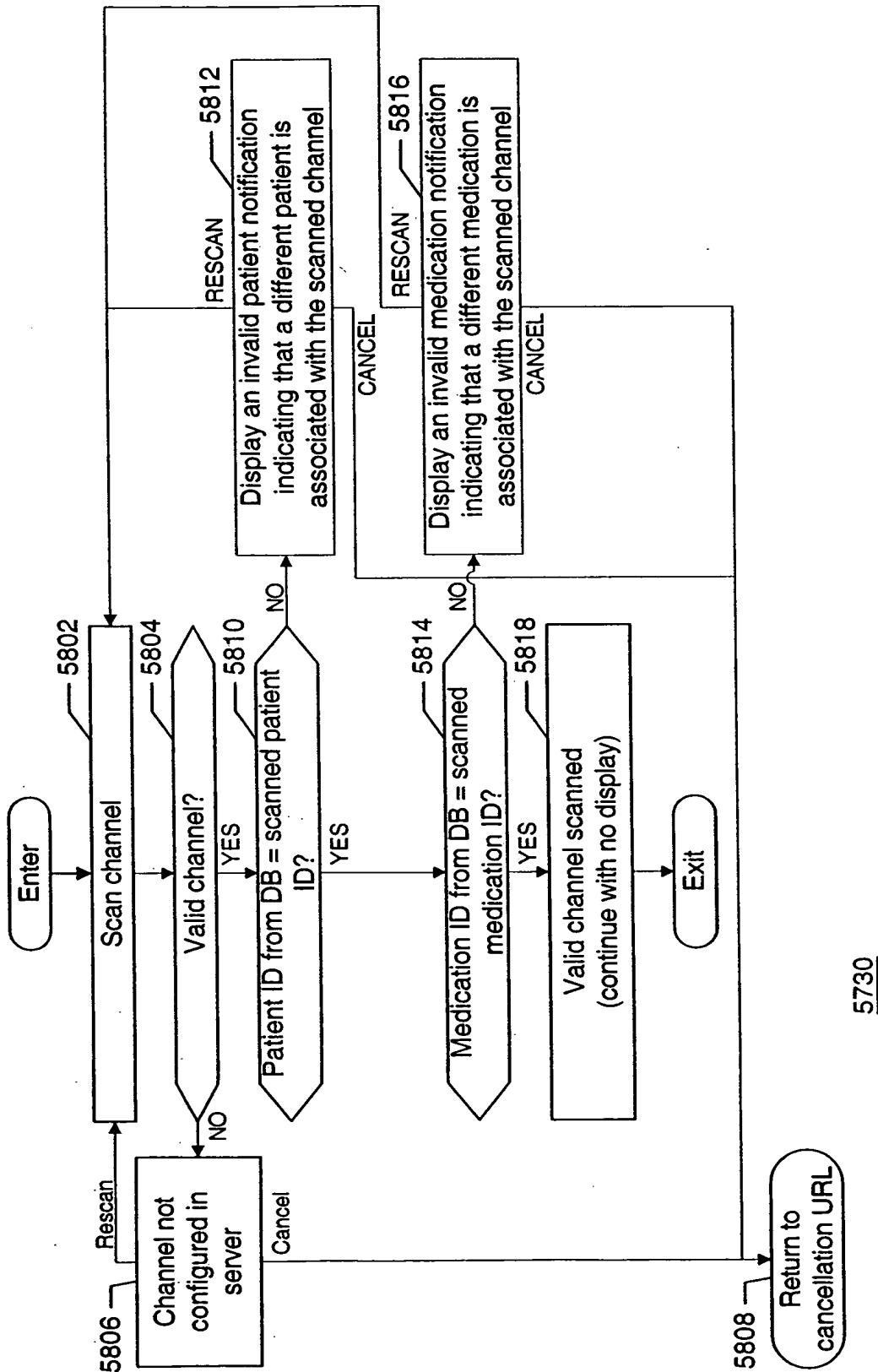
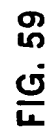
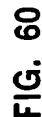


FIG. 58







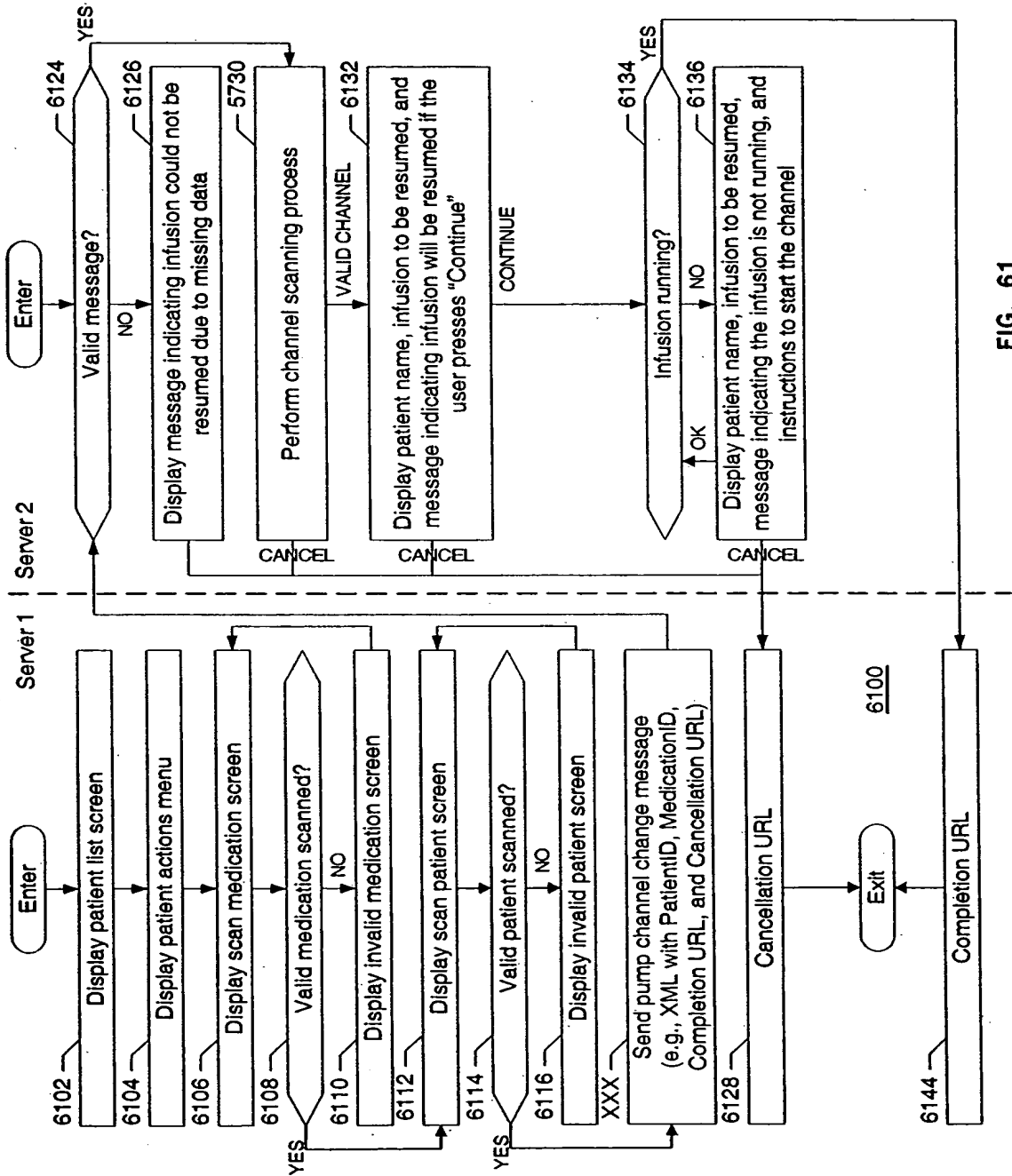


FIG. 61

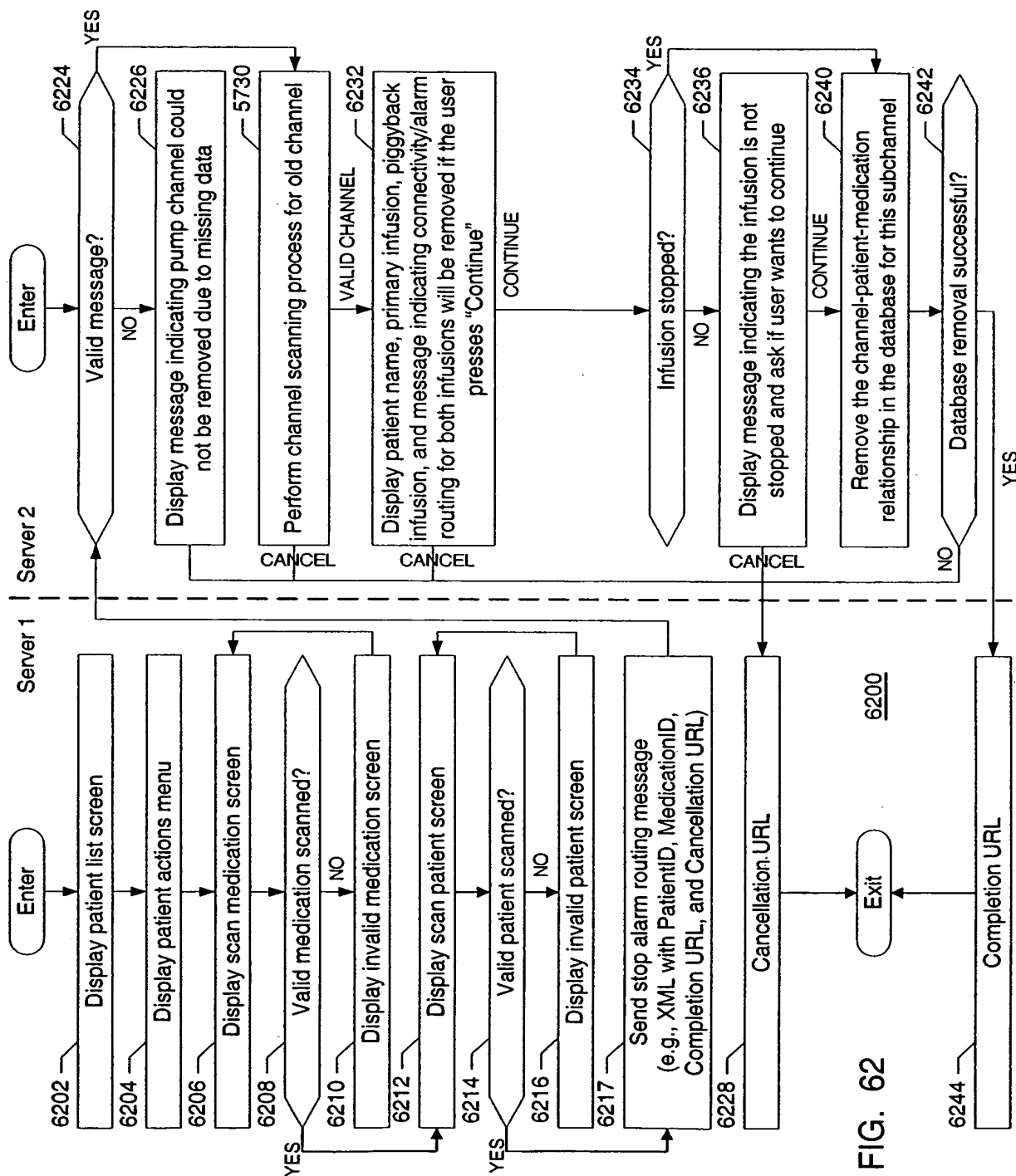


FIG. 62

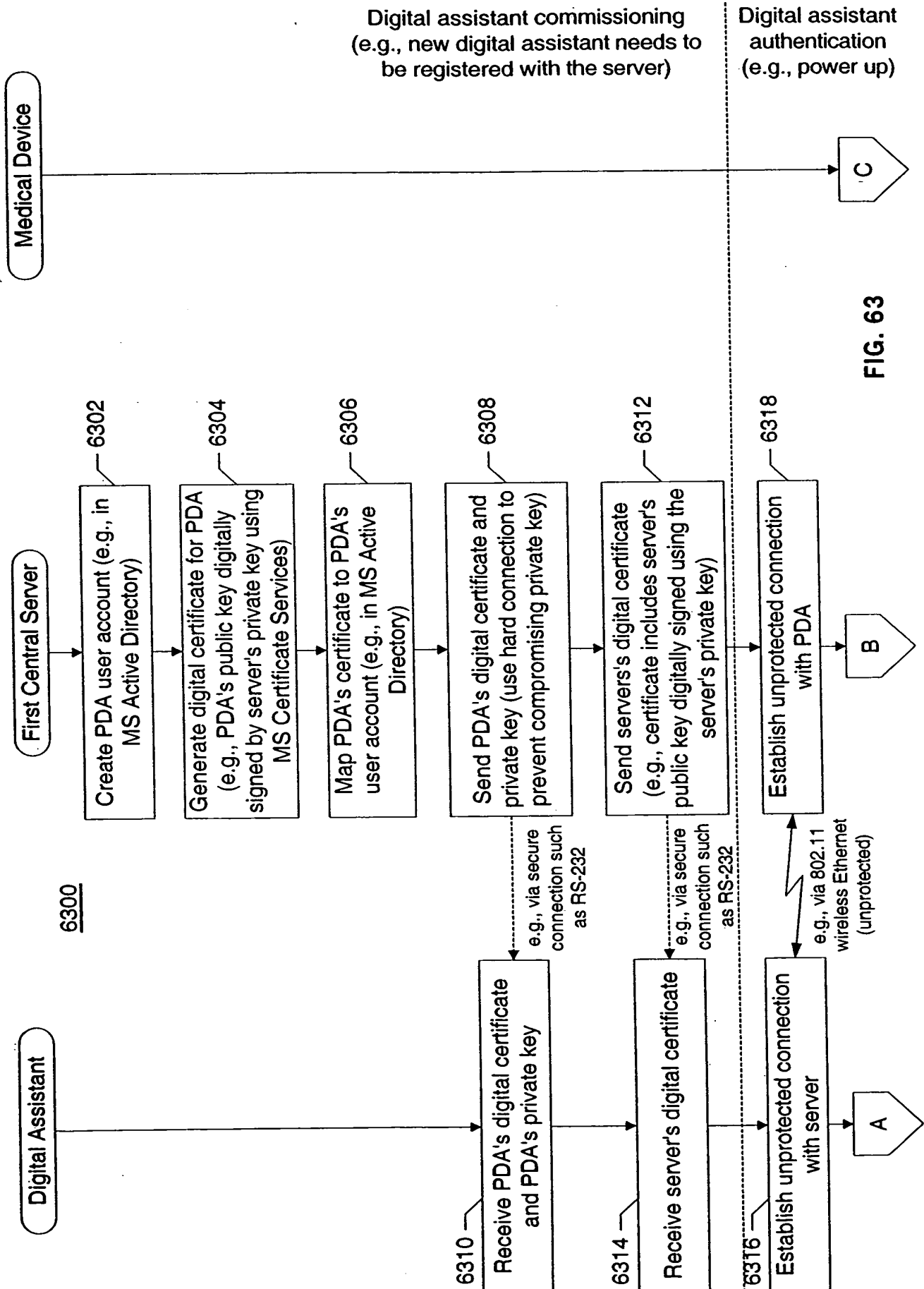
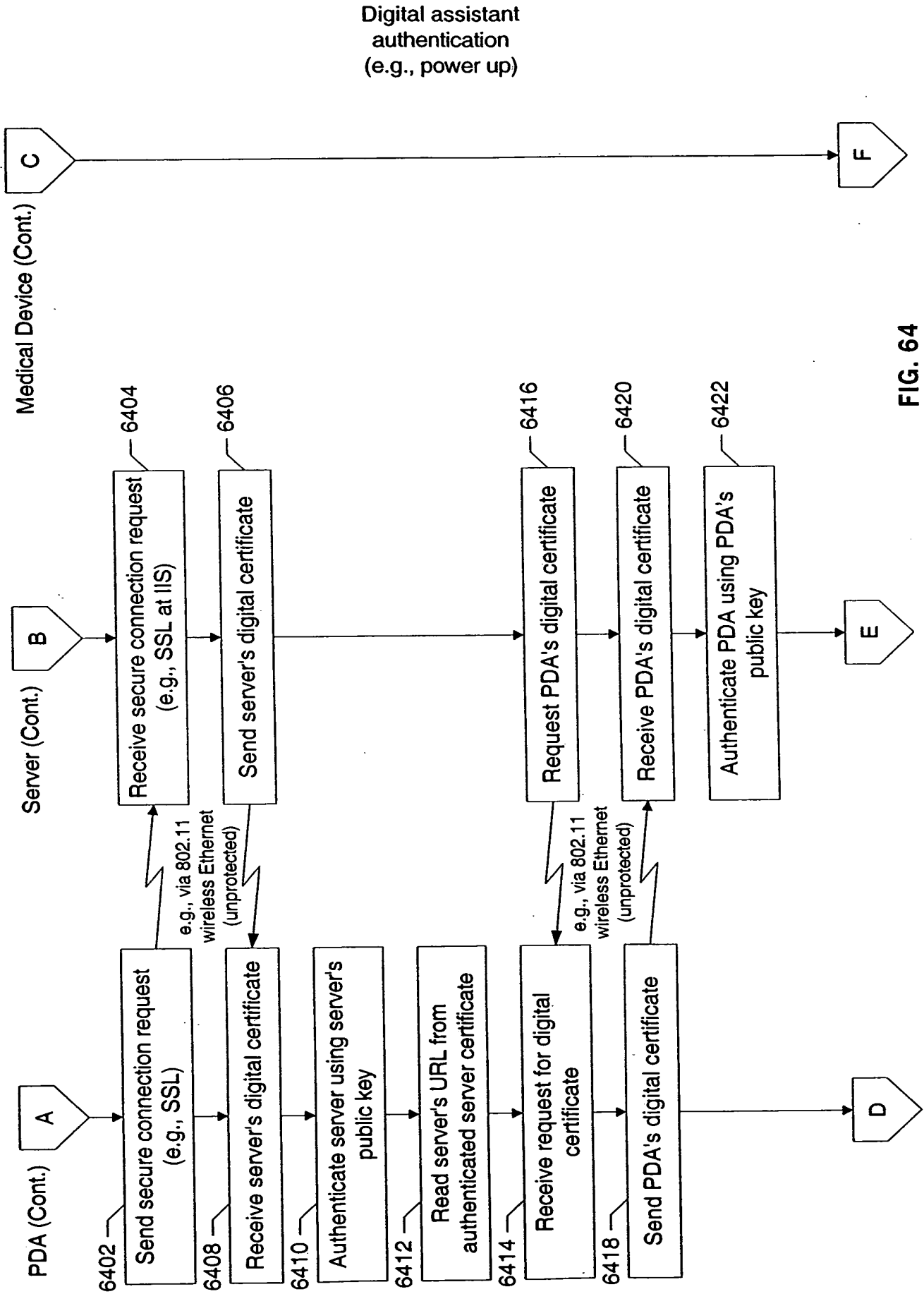
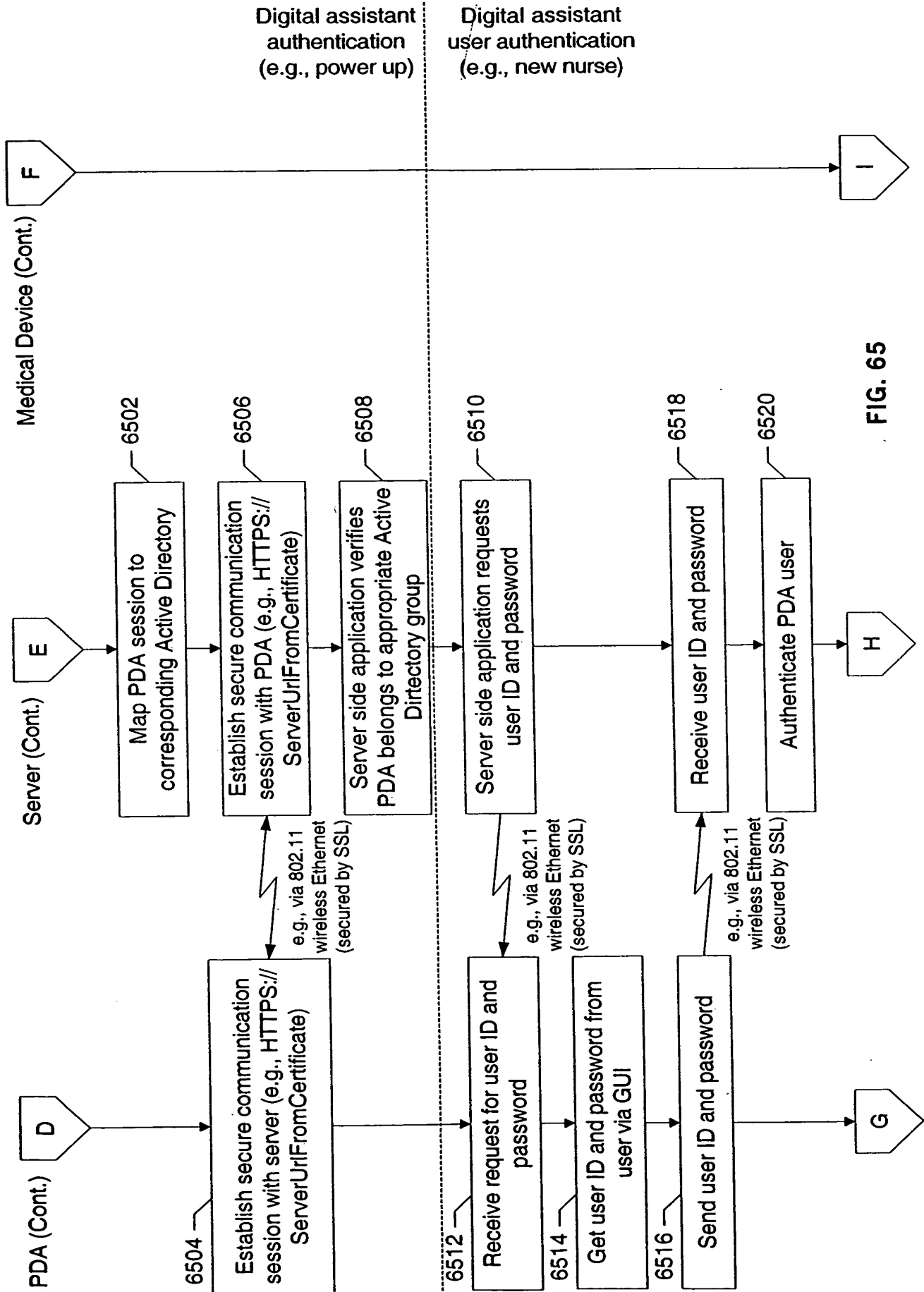


FIG. 63





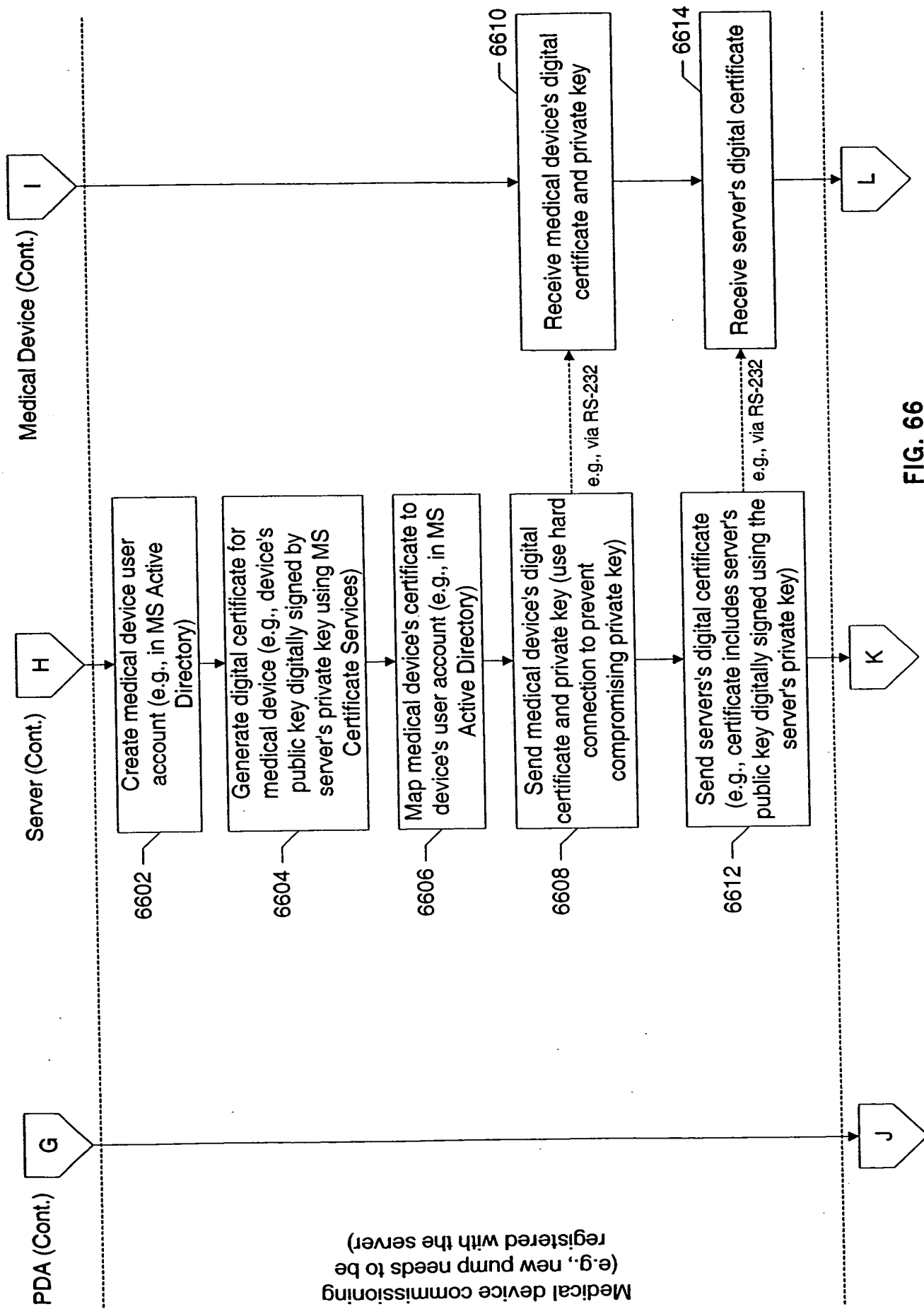


FIG. 66

(e.g., new pump needs to be registered with the server)



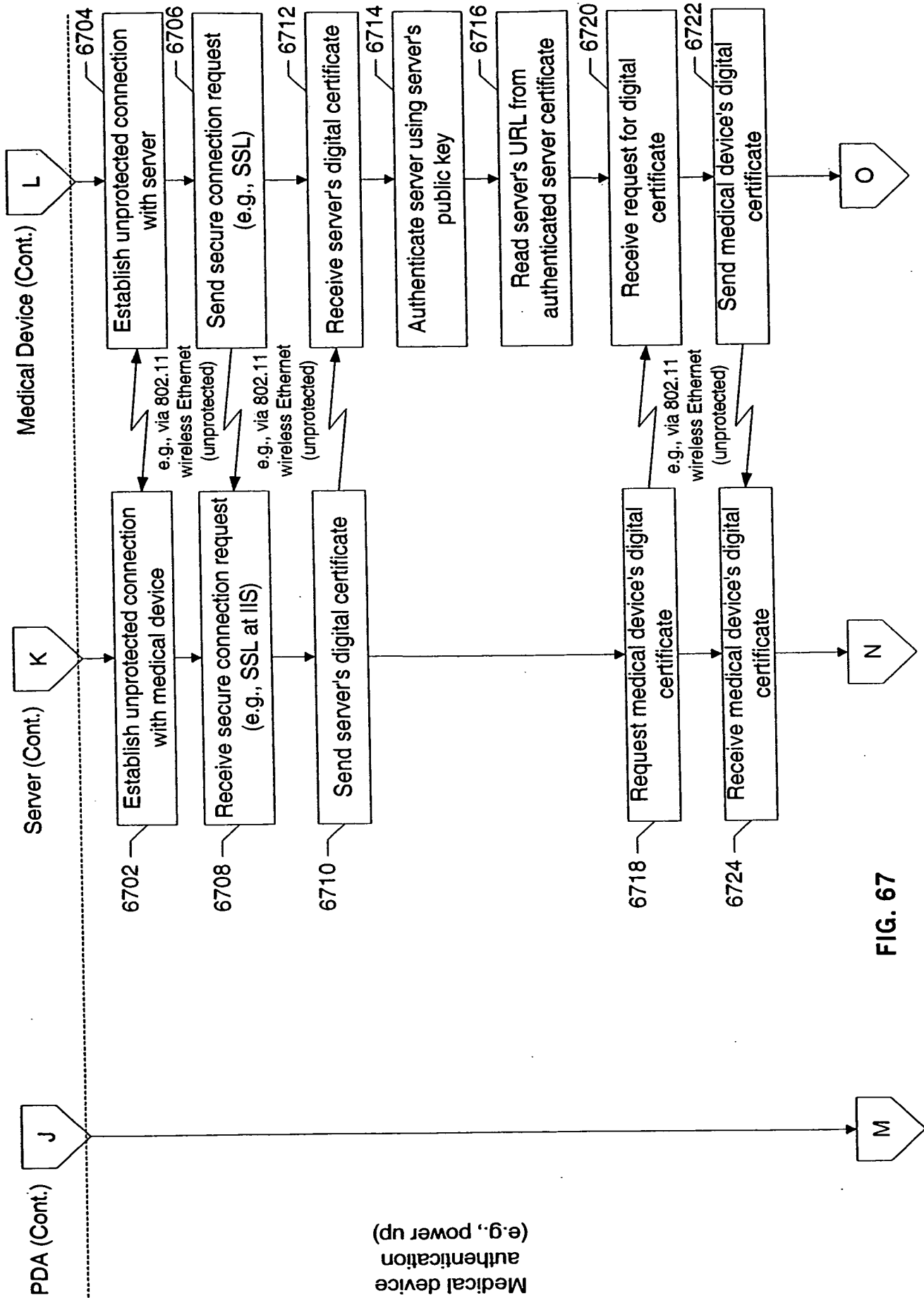


FIG. 67

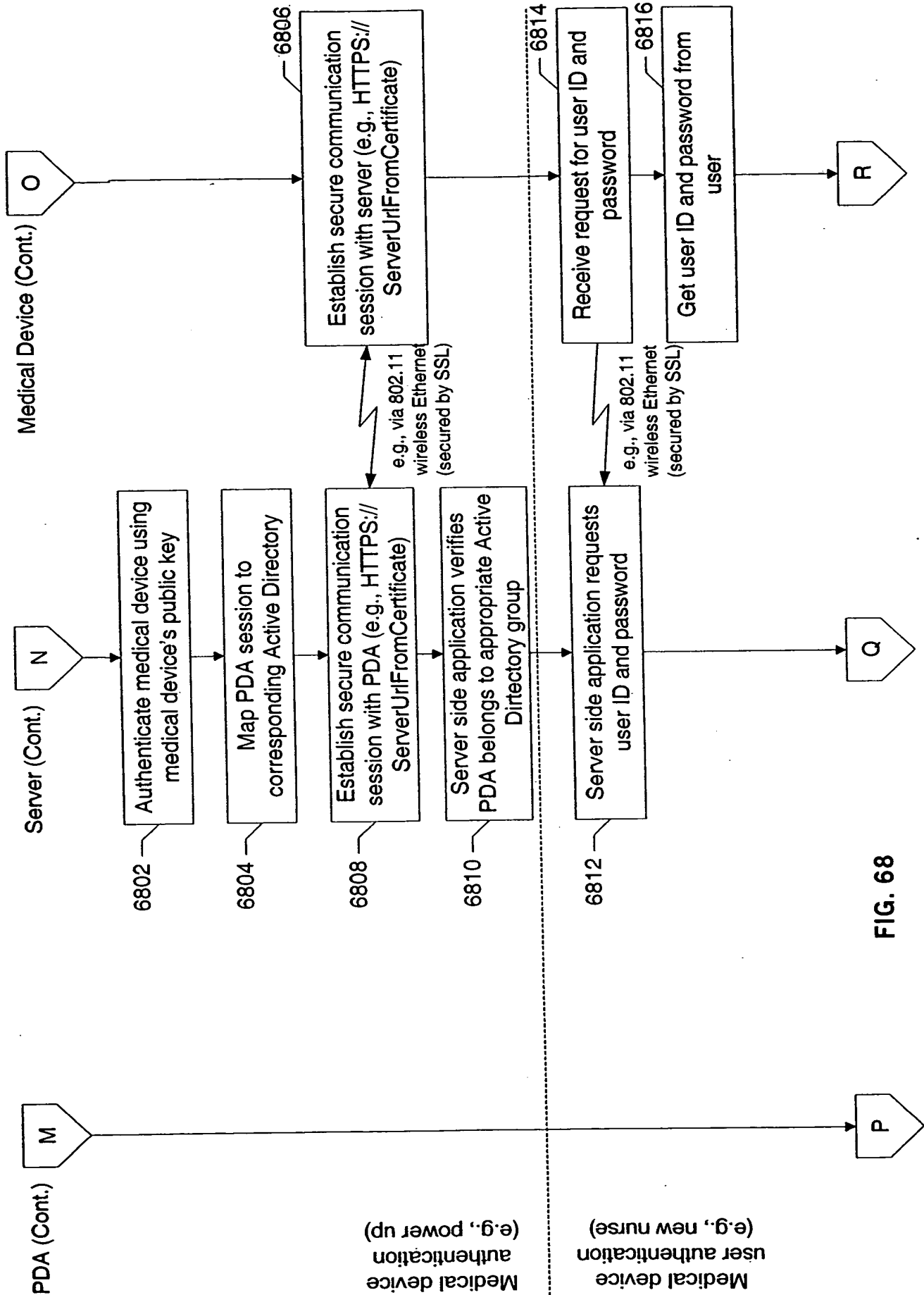


FIG. 68

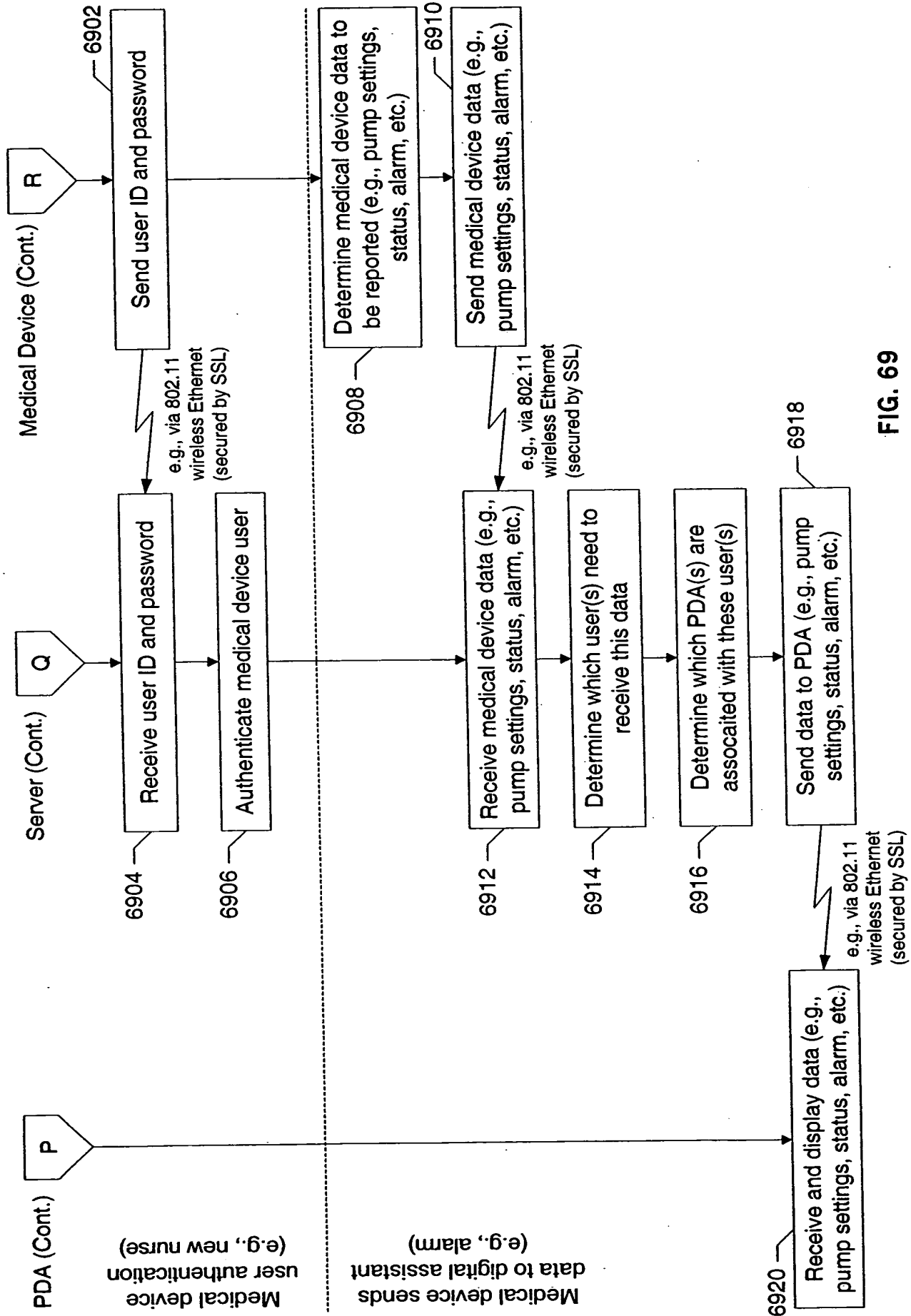


FIG. 69

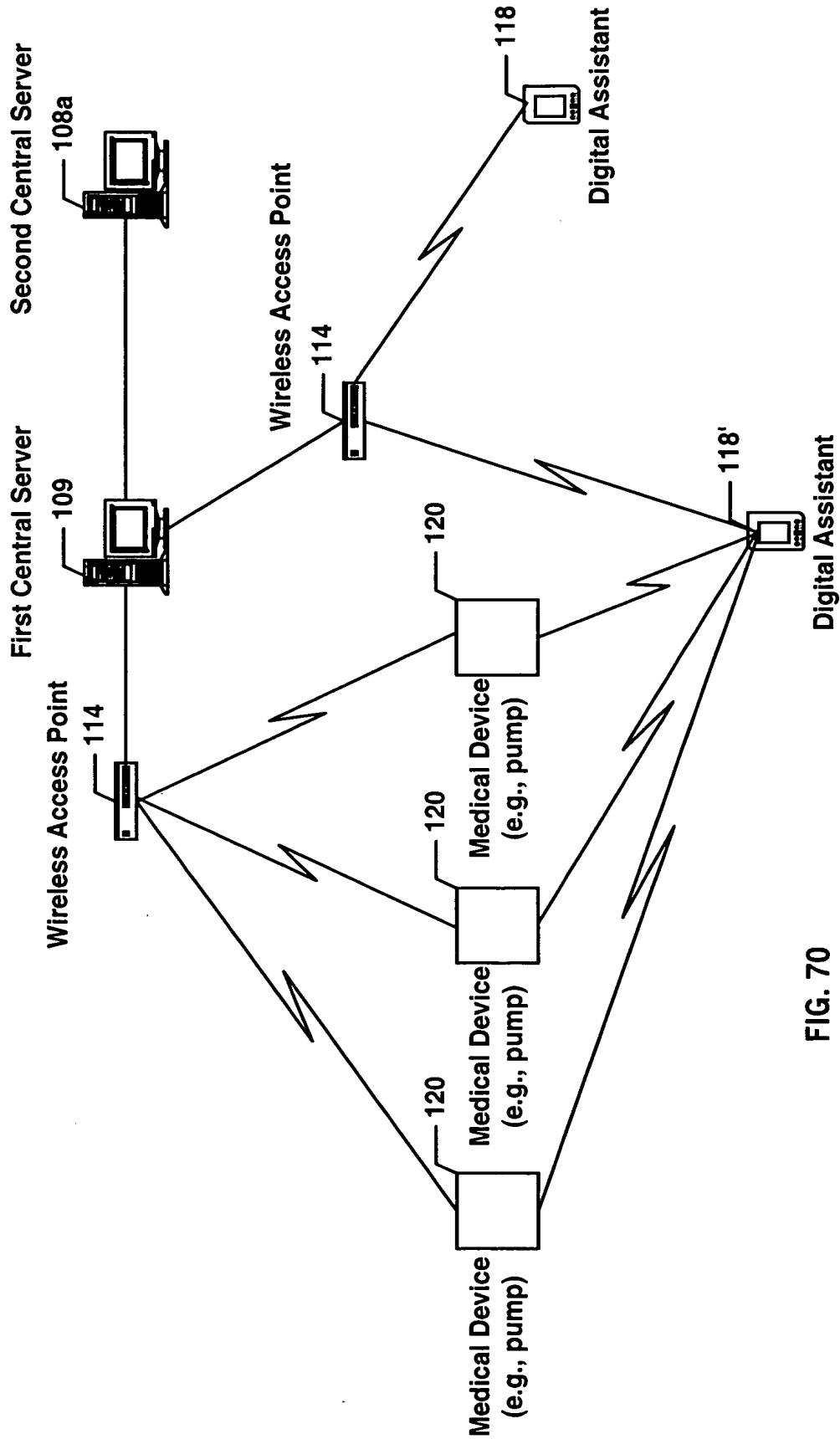
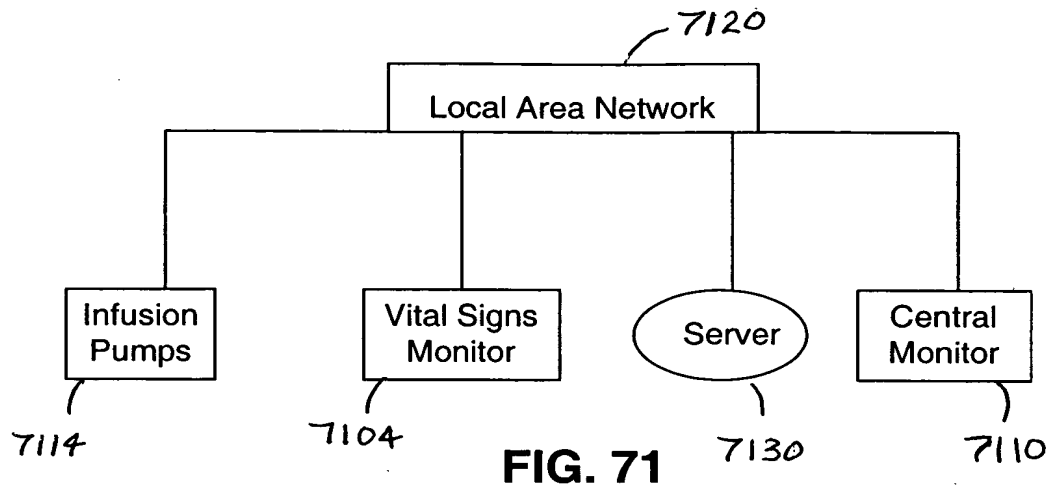


FIG. 70



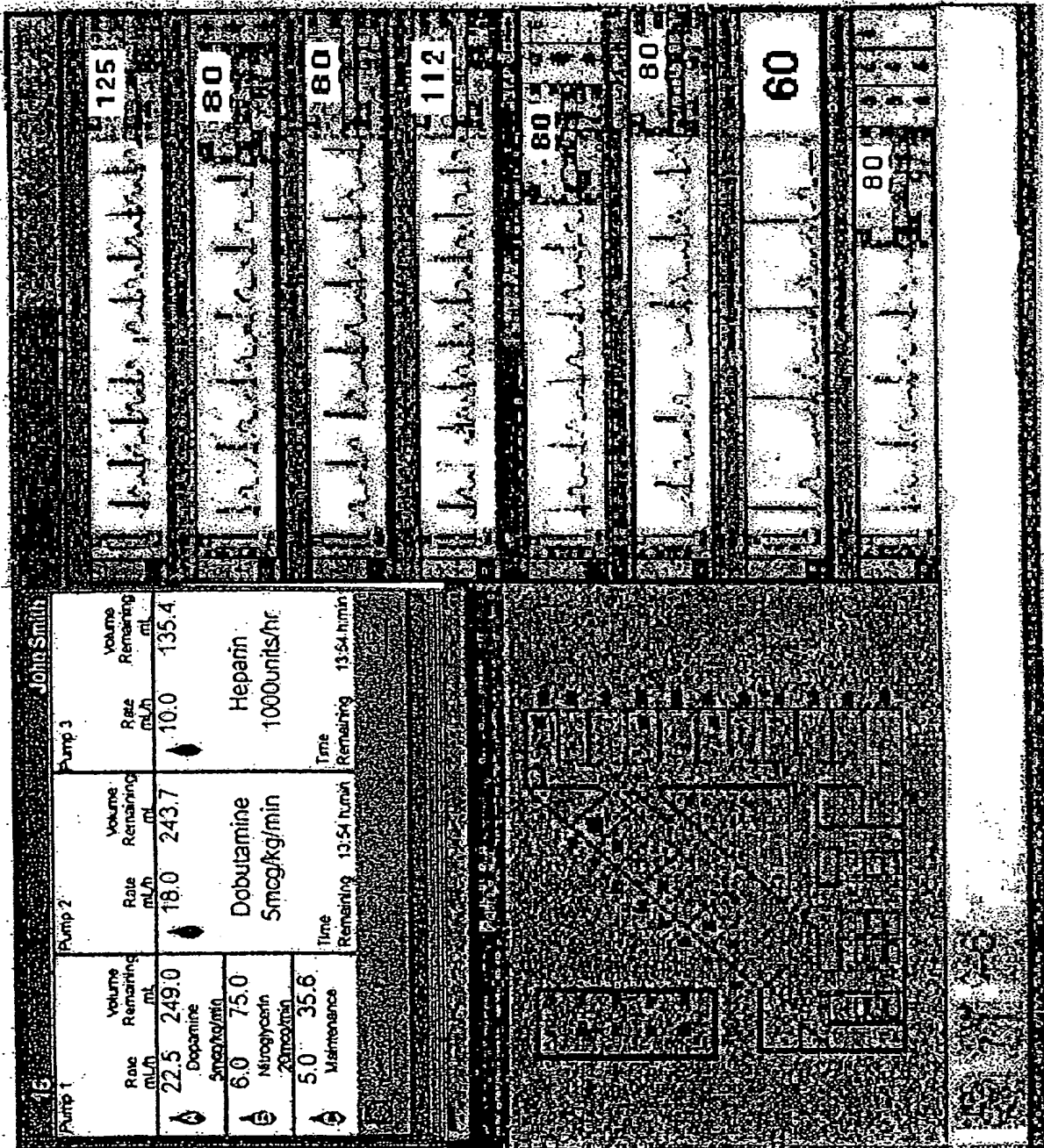


FIG. 72

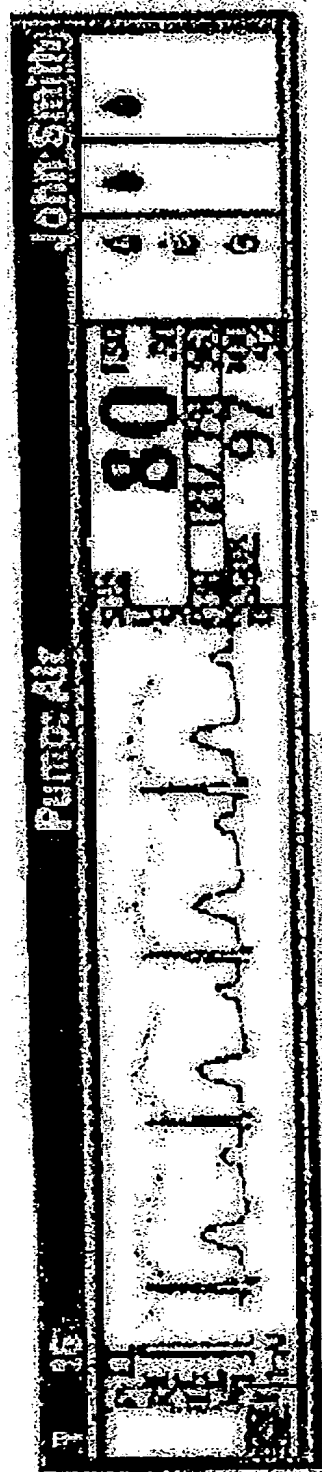


FIG. 73










16		John Smith	
Pump 1		Pump 2	Pump 3
Rate mL/h	Volume Remaining mL	Rate mL/h	Volume Remaining mL
22.5	249.0	18.0	243.7
Dopamine 5mcg/kg/min		Dobutamine 5mcg/kg/min	
6.0	75.0	Heparin 1000units/hr	
Nitroglycerin 20mcg/min		Time Remaining 13:54 h:min	
5.0	35.6	Time Remaining 13:54 h:min	
Maintenance		Time Remaining 13:54 h:min	

FIG. 74



16

John Smith

Pump 1	Pump 2	Pump 3			
<div style="display: flex; justify-content: space-between;"> <div>  </div> <div>           Rate ml/hr 22.5         </div> <div>           Volume Remaining ml 249.0         </div> </div> <div style="text-align: center;">Dopamine 5mg/kg/min</div>	<div style="display: flex; justify-content: space-between;"> <div>  </div> <div>           Rate ml/hr 18.0         </div> <div>           Volume Remaining ml 243.7         </div> </div> <div style="text-align: center;">Dobutamine 5mg/kg/min</div>	<div style="display: flex; justify-content: space-between;"> <div>  </div> <div>           Rate ml/hr 10.0         </div> <div>           Volume Remaining ml 135.4         </div> </div> <div style="text-align: center;">Heparin 1000units/hr</div>			
<div style="display: flex; justify-content: space-between;"> <div>  </div> <div>           Rate ml/hr 6.0         </div> <div>           Volume Remaining ml 75.0         </div> </div> <div style="text-align: center;">Nitroglycerin 20mcg/min</div>					
<div style="display: flex; justify-content: space-between;"> <div>  </div> <div>           Rate ml/hr 5.0         </div> <div>           Volume Remaining ml 35.6         </div> </div> <div style="text-align: center;">Maintenance</div>					
<div style="display: flex; justify-content: space-between;"> <div>  </div> <div>  </div> </div>			<div style="display: flex; justify-content: space-between;"> <div>  </div> <div>  </div> </div>		

Pump: Air

Time Remaining 13:54 h:min

Time Remaining 13:54 h:min

FIG. 75

### Near Miss Summary

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

		Near Miss							Med Error
		Total Administrations	Total Wrong	# Wrong Drug	# Wrong Patient	# Wrong Time	# Wrong Route	# Wrong Dose	#Wrong Dose
All Units	Total	750	198	41	25	77	6	20	29
	Infusion	350	66	20	0	20	6	20	0
	Non-Infusion	400	107	21	0	57	0	0	29
BPCS Demo Unit	Total	450	106	24	12	48	3	12	7
	Infusion	200	36	11	0	10	3	12	0
	Non-Infusion	250	58	13	0	38	0	0	7
BPCS Demo Unit2	Total	300	92	17	13	29	3	8	22
	Infusion	150	30	9	0	10	3	8	0
	Non-Infusion	150	49	8	0	19	0	0	22

0 Not sure how we can display this as the total Patient error scans may not split by drug

FIG. 76

### Near Miss Unit Summary

BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

		Near Miss						Med Error
	Total Administrations	Total Wrong	# Wrong Drug	# Wrong Patient	# Wrong Time	# Wrong Route	# Wrong Dose	# Wrong Dose
Total	450	106	24	12	48	3	12	7
Infusion	200	36	11	0	10	3	12	0
Non-Infusion	250	58	13	0	38	0	0	7

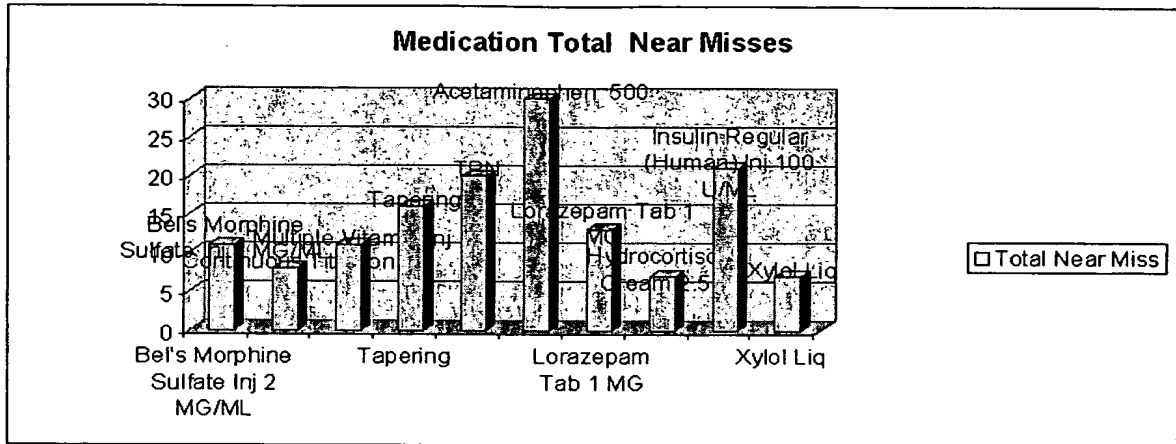
0 Not sure how we can display this as the total Patient error scans may not split by drug

FIG. 77

### Near Miss Summary by Med

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**FIG. 78**

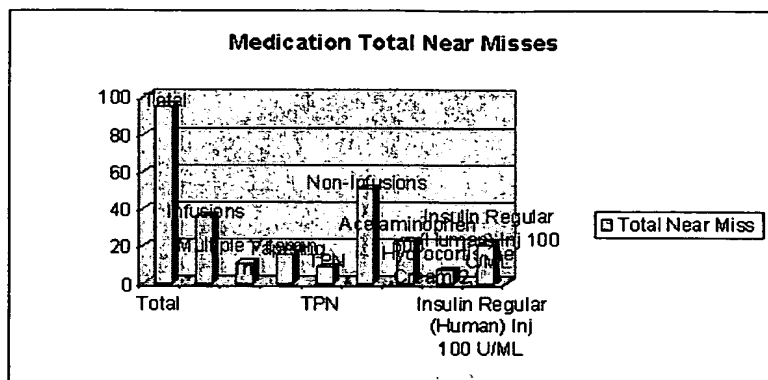
All Units	Total	Total Administrations	Total Wrong	Near Miss				Med Error
				# Wrong Drug	# Wrong Time	# Wrong Route	# Wrong Dose	
		750	173	41	77	6	20	29
	<b>Infusions</b>	350	66	20	20	6	20	0
	Bel's Morphine Sulfate Inj 2 MG/ML	25	4	4	1	2	0	0
	Continuous Titration	70	8	3	2	0	3	0
	Multiple Vitamin Inj	95	11	1	3	2	5	0
	Tapering	60	16	7	3	0	6	0
	TPN	100	20	5	8	3	4	0
	<b>Non-Infusions</b>	400	107	21	57	0	0	29
	Acetaminophen 500	125	48	5	25	0	0	18
	Lorazepam Tab 1 MG	100	19	3	10	0	0	6
	Hydrocortisone Cream 2.5%	50	9	4	3	0	0	2
	Insulin Regular (Human) Inj 100 U/ML	100	21	6	15	0	0	0
	Xylol Liq	25	10	3	4	0	0	3
<b>BPCS Demo Unit</b>	<b>Total</b>	450	102	24	48	3	20	7
	<b>Infusions</b>	200	36	11	10	3	12	0
	Multiple Vitamin Inj	95	11	1	3	2	5	0
	Tapering	60	16	7	3	0	6	0
	TPN	45	9	3	4	1	1	0
	<b>Non-Infusions</b>	250	58	13	38	0	0	7
	Acetaminophen 500	100	28	3	20	0	0	5
	Hydrocortisone Cream 2.5%	50	9	4	3	0	0	2
	Insulin Regular (Human) Inj 100 U/ML	100	21	6	15	0	0	0
<b>BPCS Demo Unit2</b>	<b>Total</b>	300	71	17	29	3	0	22
	<b>Infusions</b>	150	21	5	6	2	8	0
	Bel's Morphine Sulfate Inj 2 MG/ML	25	11	4	4	1	2	0
	Continuous Titration	70	8	3	2	0	3	0
	TPN	55	11	2	4	2	3	0
	<b>Non-Infusions</b>	150	49	8	19	0	0	22

**FIG. 79**

### Near Miss Unit Summary by Med

BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**FIG. 80**

	Total Administrations	Total Wrong	Near Miss				Med Error
			# Wrong Drug	# Wrong Time	# Wrong Route	# Wrong Rate	
<b>Total</b>	<b>450</b>	<b>102</b>	<b>24</b>	<b>48</b>	<b>3</b>	<b>20</b>	<b>7</b>
<b>Infusions</b>	<b>200</b>	<b>36</b>	<b>11</b>	<b>10</b>	<b>3</b>	<b>12</b>	<b>0</b>
Multiple Vitamin Inj	95	11	1	3	2	5	0
Tapering	60	16	7	3	0	6	0
TPN	45	9	3	4	1	1	0
<b>Non-Infusions</b>	<b>250</b>	<b>58</b>	<b>13</b>	<b>38</b>	<b>0</b>	<b>0</b>	<b>7</b>
Acetaminophen 500	100	28	3	20	0	0	5
Hydrocortisone Cream 2.5%	50	9	4	3	0	0	2
Insulin Regular (Human) Inj 100 U/ML	100	21	6	15	0	0	0

**FIG. 81**

<b>Baxter</b> Scan Errors				
Group = Nurse - Hand Held (Hand Held)				QA Test Hospital
Personnel: Andr. Andr				
Nurse - CPOE (CPOE)				
Nurse - Hand Held (Hand Held)				
Nurse - Inpatient (Inpatient)				
Nurse - Lifeline (Lifeline)				
Time	System / Screen	Scan Error (Type/Error)	Expected	Actual
<b>06-Nov-2003 (Thursday)</b>				
15:37	Autros Hand Held	Item Scan ID	102 Captopril Tab 50 MG	106 Acetaminophen Soln 100
	/Handheld/eMar/EnterDrugQuantity.aspx	Scanned barcode is invalid or inactive.	CAPOTEN	MG/ML ACETAMINOPHEN
<b>24-Nov-2003 (Monday)</b>				
13:31	Autros Hand Held	Patient Locator		q
	/Handheld/Shift/ShiftSelectPatients.aspx	Scanned barcode is invalid or inactive.		
<b>28-Nov-2003 (Friday)</b>				
15:33	Autros Hand Held	Item Scan ID	106 Acetaminophen Soln 100	409 Cefazolin Sodium For Inj
	/Handheld/MixOnFloor/MixOnFloorGetItte	Scanned barcode is invalid or inactive.	MG/ML ACETAMINOPHEN	10 GM LF CEFAZOLIN SODIUM
<b>28-Nov-2003 (Friday)</b>				
15:36	Autros Hand Held	Item Scan ID	8800006940	880006940
	/Handheld/eMar/ScanIVBagForAdmin.as	Scanned barcode is invalid or inactive.		
15:39	Autros Hand Held	Item Scan ID	8800006941	8800006941
	/Handheld/eMar/ScanIVBagForAdmin.as	Scanned barcode is invalid or inactive.		
15:41	Autros Hand Held	Item Scan ID	One of IV Bag IDs	8800006941
	/Handheld/StopInfusion/StoppedInfusion	Scanned barcode is invalid or inactive.		
<b>05-Jan-2004 (Monday)</b>				
11:19	Autros Hand Held	Patient Locator		qa998
	/Handheld/Shift/ShiftSelectPatients.aspx	Scanned barcode is invalid or inactive.		
<b>21-Jan-2004 (Wednesday)</b>				
15:17	Autros Hand Held	Item Scan ID	8800011408	8800011168
	/Handheld/eMar/ScanIVBagForAdmin.as	Scanned barcode is invalid or inactive.		
<b>03-Feb-2004 (Tuesday)</b>				
16:20	Autros Hand Held	Item Scan ID	11 Alprazolam Tab 2 MG (Bel)	102 Captopril Tab 50 MG
	/Handheld/eMar/EnterDrugQuantity.aspx	Scanned barcode is invalid or inactive.	ALPRAZOLAM (Bel)	CAPOTEN
16:20	Autros Hand Held	Item Scan ID	11 Alprazolam Tab 2 MG (Bel)	9
	/Handheld/eMar/EnterDrugQuantity.aspx	Scanned barcode is invalid or inactive.	ALPRAZOLAM (Bel)	
				Number of Errors: 10

March 15, 2004 11:31

Page 17 of 458

FIG. 82

**Selection Criteria**

☒ OK ☐ Cancel

**Created Date**

Start: 15-MAR-2004 10:58

End: 15-MAR-2004 10:58

**Screen**

Click listbox for values

**Barcode Type**

Click listbox for values

**User Group**

- ARS Client (ARS Client)
- Charge Nurse (Hand Held)
- Database Administrator (Autros Maintenance)
- HL7Engine (HL7 Interface)
- Nurse - CPOE (CPOE)
- Nurse - Hand Held (Hand Held)
- Nurse - Inpatient (Inpatient)
- Nurse - Lifeline (Lifeline)
- Pharmacist - CPOE (CPOE)
- Pharmacist - Hand Held (Hand Held)
- Pharmacist - Inpatient (Inpatient)
- Pharmacist - Lifeline (Lifeline)
- Physician - CPOE (CPOE)

**User**

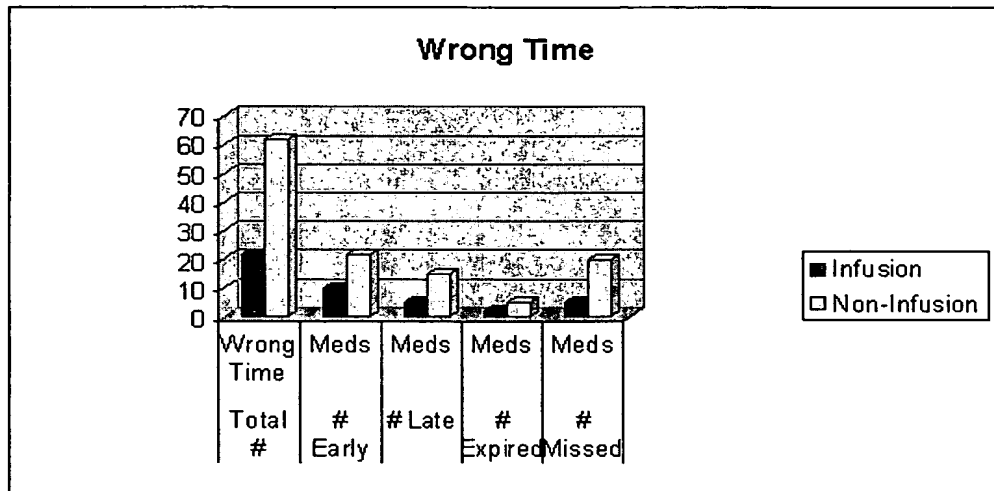
Click listbox for values

**FIG. 83**

## Near Miss Wrong Time Summary

### All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



Total Administrations: 546

**FIG. 84**

Total Administrations: 546

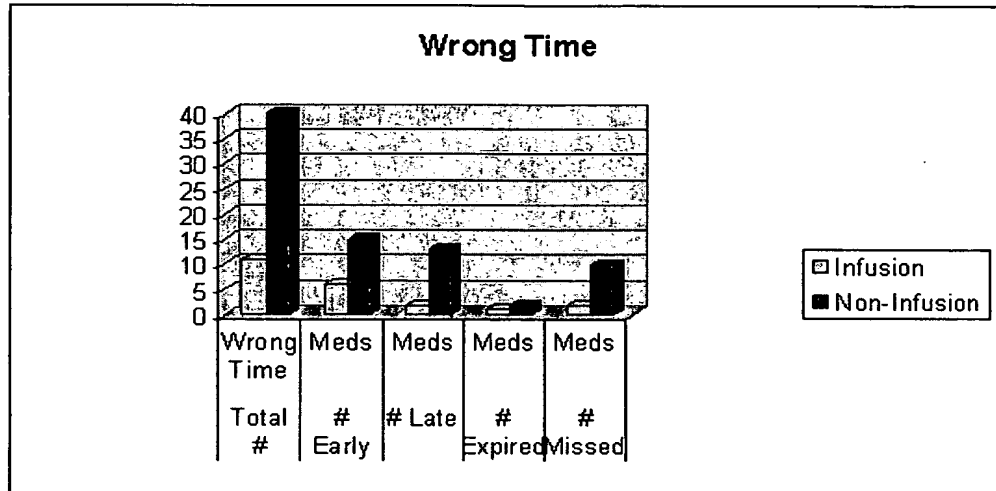
		Total # Wrong Time	# Early Meds	# Late Meds	# Expired Meds	# Missed Meds
All Units	Total	84	32	20	7	25
	Infusion	22	10	5	2	5
	Non-Infusion	62	22	15	5	20
BPCS Demo Unit	Total	51	21	15	3	12
	Infusion	11	6	2	1	2
	Non-Infusion	40	15	13	2	10
BPCS Demo Unit2	Total	33	11	5	4	13
	Infusion	11	4	3	1	3
	Non-Infusion	22	7	2	3	10

**FIG. 85**

## Near Miss Wrong Time Unit Summary

BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



Total Administrations: 160

**FIG. 86**

Total Administrations: 160

	Total # Wrong Time	# Early Meds	# Late Meds	# Expired Meds	# Missed Meds
Total	51	21	15	3	12
Infusion	11	6	2	1	2
Non-Infusion	40	15	13	2	10

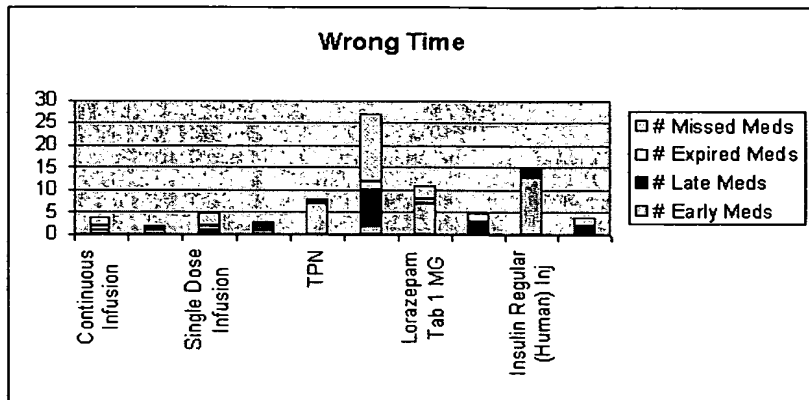
**FIG. 87**



### Wrong Time by Med

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



Total Administrations: 546

FIG. 88

Total Administrations: 546

		Total # Wrong Time	# Early Meds	# Late Meds	# Expired Meds	# Missed Meds
All Units	<b>Total</b>	<b>84</b>	<b>32</b>	<b>20</b>	<b>7</b>	<b>25</b>
	<b>Infusions</b>	<b>22</b>	<b>10</b>	<b>5</b>	<b>2</b>	<b>5</b>
	Continuous Infusion	4	1	0	1	2
	Continuous Titration	2	1	1	0	0
	Single Dose Infusion	5	0	1	1	3
	Tapering	3	1	2	0	0
	TPN	8	7	1	0	0
	<b>Non-Infusions</b>	<b>62</b>	<b>22</b>	<b>15</b>	<b>5</b>	<b>20</b>
	Acetaminophen 500	27	2	8	2	15
	Lorazepam Tab 1 MG	11	7	0	1	3
	Hydrocortisone Cream 2.5%	5	0	3	2	0
	Insulin Regular (Human) Inj 100 U/ML	15	13	2	0	0
	Xylol Liq	4	0	2	0	2
BPCS Demo Unit	<b>Total</b>	<b>51</b>	<b>21</b>	<b>15</b>	<b>3</b>	<b>12</b>
	<b>Infusions</b>	<b>11</b>	<b>6</b>	<b>2</b>	<b>1</b>	<b>2</b>
	Continuous Infusion	4	1	0	1	2
	Tapering	3	1	2	0	0
	TPN	4	4	0	0	0
	<b>Non-Infusions</b>	<b>40</b>	<b>15</b>	<b>13</b>	<b>2</b>	<b>10</b>
	Acetaminophen 500	20	2	8	0	10
	Hydrocortisone Cream 2.5%	5	0	3	2	0
	Insulin Regular (Human) Inj 100 U/ML	15	13	2	0	0
	Xylol Liq	4	0	2	0	2
BPCS Demo Unit2	<b>Total</b>	<b>33</b>	<b>11</b>	<b>5</b>	<b>4</b>	<b>13</b>
	<b>Infusions</b>	<b>11</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>3</b>
	Continuous Titration	2	1	1	0	0
	Single Dose Infusion	5	0	1	1	3
	TPN	4	3	1	0	0
	<b>Non-Infusions</b>	<b>22</b>	<b>7</b>	<b>2</b>	<b>3</b>	<b>10</b>
	Acetaminophen 500	7	0	0	2	5
	Lorazepam Tab 1 MG	11	7	0	1	3
	Xylol Liq	4	0	2	0	2

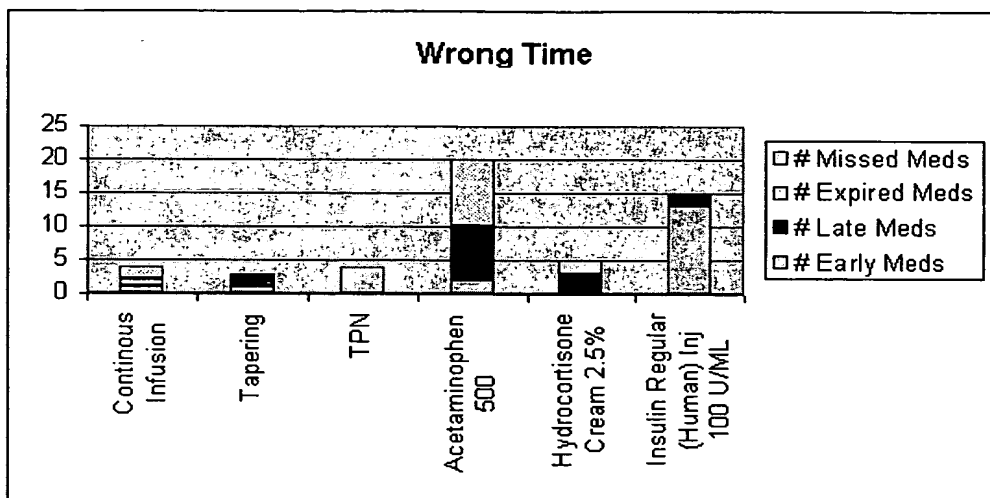
FIG. 89

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## Wrong Time by Med

BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



Total Administrations: 160

**FIG. 90**

Total Administrations: 160

	Total # Wrong Time	# Early Meds	# Late Meds	# Expired Meds	# Missed Meds
<b>Total</b>	<b>51</b>	<b>21</b>	<b>15</b>	<b>3</b>	<b>12</b>
<b>Infusions</b>	<b>11</b>	<b>6</b>	<b>2</b>	<b>1</b>	<b>2</b>
Continuous Infusion	4	1	0	1	2
Tapering	3	1	2	0	0
TPN	4	4	0	0	0
<b>Non-Infusions</b>	<b>40</b>	<b>15</b>	<b>13</b>	<b>2</b>	<b>10</b>
Acetaminophen 500	20	2	8	0	10
Hydrocortisone Cream 2.5%	5	0	3	2	0
Insulin Regular (Human) Inj 100 U/ML	15	13	2	0	0

**FIG. 91**

BEST AVAILABLE COPY

### Wrong Time with Reason Code Report

BPCS Demo Unit

Period of report from: 03-Mar-2004 09:00 to 04-Mar-2004 17:00

Reason	Patient	RX	Order Admin Time	Admin Time	Nurse
<b>Early Medication Administrations</b>					
<b>Acetaminophen</b>					
As per MD	FTLOC1	1 CAP(s) Administered 500 MG 500 MG = 1 CAP Oral New	03-Mar-2004 10:59	03-Mar-2004 09:22:14	NURSEB
Other	ETLOC1	1 CAP(s) Administered 500 MG 500 MG = 1 CAP Oral New	04-Mar-2004 14:15	04-Mar-2004 13:05	CHNURSE
					<b>Total Early: 2</b>
<b>Late Medication Administrations</b>					
<b>Acetaminophen</b>					
Patient unavailable at scheduled time	pid04	1 CAP(s) Administered 500 MG 500 MG = 1 CAP Oral New	03-Mar-2004 10:59	03-Mar-2004 11:22:14	NURSEA
Other	LZ001	1 CAP(s) Administered 500 MG 500 MG = 1 CAP Oral New	04-Mar-2004 14:15	04-Mar-2004 15:35	CHNURSE
					<b>Total Late: 3</b>
<b>Multiple Vitamin Inj</b>					
Patient unavailable at scheduled time	FTLOC1	Continuous Infusion *Multiple Vitamin Inj** 20 ML WR13_Water For IV Injection 2 L = 2000 ML Route: Intravenous Flow Rate: 250 ML/H Estimated Administration Period: 8 Hours	03-Mar-2004 10:59	03-Mar-2004 11:22:14	NURSEB
					<b>Total Expired: 1</b>
<b>Acetaminophen</b>					
Still Required	newp2	1 CAP(s) Administered 500 MG 500 MG = 1 CAP Oral New	03-Mar-2004 10:59	03-Mar-2004 12:45:14	FNURSE

FIG. 92

BEST AVAILABLE COPY

Missed Medication Administrations				
Acetaminophen				
newp2	1 CAP(s) Administered 500 MG 500 MG = 1 CAP Oral New	Acetaminophen Cap	03-Mar-2004 09:45	
FTLOC1	1 CAP(s) Administered 500 MG 500 MG = 1 CAP Oral New	Acetaminophen Cap	03-Mar-2004 13:00	
L2001	1 CAP(s) Administered 500 MG 500 MG = 1 CAP Oral New	Acetaminophen Cap	03-Mar-2004 17:45	
Multiple Vitamin Inj				
ETLOC1	Continuous Infusion Simp Continuous Infusion *Multiple Vitamin Inj** 100 ML Route: Intravenous Flow Rate: 50 ML/H Line: Lne3 Site: tail Estimated Administration Period: 2 Hours		03-Mar-2004 11:00	
ETLOC1	Continuous Infusion Simp Continuous Infusion *Multiple Vitamin Inj** 100 ML Route: Intravenous Flow Rate: 50 ML/H Line: Lne3 Site: tail Estimated Administration Period: 2 Hours		03-Mar-2004 13:00	
				Total Missed: 5

Report ID:12345 Requested by J.Brushey Report printed on Mar 05,2004 14:30:04

FIG. 93

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BEST AVAILABLE COPY

## Infusion Flow Rate History

Run Period: from 8/14/2003 12:00:00AM to 3/1/2004 12:00:00AM

Page 1 of 1

Occurrence Date		Pump Mode	Pump Status	Rate(mL/H)
Unit: AUTROS DEMO UNIT				
Patient Name: AUTROS, Ptl				
Nurse: Tech, Cori				
RX: 197780 Continuous Infusion				
*Multiple Vitamin Inj**				
10 ML				
Route: Injection Flow Rate: 10 ML/H				
Estimated Administration Period: 1 Hour				
751697	11/14/2004 1:10:58PM	Primary	Stopped	50.00
	11/14/2004 2:50:49PM	Primary	Stopped	0.00
	11/14/2004 2:51:04PM	Primary	Stopped	20.00
RX: 199997 Continuous Infusion				
*Multiple Vitamin Inj**				
9999 ML				
Route: Injection Flow Rate: 1200 ML/H				
Estimated Administration Period: 5 Hours				
755328	11/23/2004 2:08:40PM	Primary	Standby mode	100.00
	11/23/2004 2:08:49PM	Primary	Stopped	100.00
	11/23/2004 2:08:58PM	Primary	Stopped	52.00
	11/23/2004 2:11:36PM	Primary	Standby mode	52.00
	11/23/2004 2:32:30PM	Primary	Stopped	52.00
	11/23/2004 2:32:51PM	Primary	Stopped	555.00
	11/23/2004 2:34:06PM	Primary	Standby mode	555.00

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Ref: SR001

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Page 1 of 1

FIG. 94

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### Colleague Infusion Rate and Mode Comparison Summary

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

		Rate					Mode
		Total	# Matches	# Resolved Mismatches	# Accepted Mismatches	# No Comparisons	# Mismatches
Total Infusions for All Units	Total	114	62	20	20	32	28
	Primary	62	35	13	14	13	11
	Piggyback	52	27	7	6	19	17
BPCS Demo Unit Total Infusions	Total	55	30	12	7	18	16
	Primary	35	20	7	5	10	4
	Piggyback	20	10	5	2	8	12
BPCS Demo Unit2 Total Infusions	Total	59	32	8	13	14	12
	Primary	27	15	6	9	3	7
	Piggyback	32	17	2	4	11	5

FIG. 95

### Colleague Infusion Rate and Mode Comparison Unit Summary

BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

		Rate				Mode
	Total	# Matches	# Resolved Mismatches	# Accepted Mismatches	# No Comparisons	# Mismatches
Total Infusions	55	30	12	7	18	16
Primary	35	20	7	5	10	4
Piggyback	20	10	5	2	8	12

FIG. 96

### Infusion Flow Rate Comparison

Run Period: from 8/24/2003 12:00:00AM to 3/11/2004 12:00:00AM

Page 1 of 1

		Total	1.No Match	1.Match	3.No Comparison
Total		35	5	2	28
*AUTROS DEMO UNIT*	Unit	35	5	2	28
	Primary	35	5	2	28

FIG. 97

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### Colleague Infusion Rate Comparison Summary by Med

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

		Rate				
		Total Infusions	# Matches	# Resolved Mismatches	# Accepted Mismatches	# No Comparisons
All Units	Total	114	62	20	20	32
	Bel's Morphine Sulfate Inj 2 MG/ML	14	7	1	3	4
	Continuous Titration	15	4	3	2	9
	Multi Vitamin Inj	17	6	4	4	7
	Tapering	42	30	7	3	9
	TPN	26	15	5	8	3
BPCS Demo Unit	Total	55	30	12	7	18
	Bel's Morphine Sulfate Inj 2 MG/ML	14	7	1	3	4
	Tapering	42	30	7	3	9
	TPN	16	10	2	4	2
BPCS Demo Unit2	Total	59	32	8	13	14
	Continuous Titration	15	4	3	2	9
	Multi Vitamin Inj	17	6	4	4	7
	TPN	10	5	3	4	1

FIG. 98

### Colleague Infusion Rate Comparison Unit Summary by Med

BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

		Rate				
		Total Infusions	# Matches	# Resolved Mismatches	# Accepted Mismatches	# No Comparisons
Total		55	30	12	7	18
Bel's Morphine Sulfate Inj 2 MG/ML		14	7	1	3	4
Tapering		42	30	7	3	9
TPN		16	10	2	4	2

FIG. 99

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### Infusion Flow Rate Comparison

Run Period: from 8/24/2003 12:00:00AM to 3/11/2004 12:00:00AM

Page 1 of 1

		Total	1.No Match	2.Match	3.No Comparison
Total		35	5	2	28
*AUTROS DEMO UNIT*	Unit	35	5	2	28
	Primary	35	5	2	28

			Total	1.No Match	2.Match	3.No Comparison
Total			35	5	2	28
*AUTROS DEMO UNIT*	Unit Total:		35	5	2	28
	Continuous Infusion *Multiple Vitamin Inj** 10 ML Route: Injection Flow	Total	15	5	1	9
		Primary	15	5	1	9
	Continuous Infusion *Multiple Vitamin Inj** 10 ML Route: Intramuscular	Total	3	0	0	3
		Primary	3	0	0	3
	Continuous Infusion *Multiple Vitamin Inj** 9999 ML Route: Injection Flow	Total	7	0	0	7
		Primary	7	0	0	7
	Continuous Infusion Morphine Sulfate Inj 15	Total	5	0	1	4
		Primary	5	0	1	4
	Continuous Infusion Morphine Sulfate Inj 15 MG/ML 45 MG = 9 ML	Total	5	0	1	4
		Primary	5	0	1	4
	Continuous Infusion Morphine Sulfate Inj 15 MG/ML * short 10 GM = 0.667 ML	Total	2	0	0	2
		Primary	2	0	0	2
	Continuous Infusion Morphine Sulfate Inj 15 MG/ML * short 10 GM = 0.667 ML	Total	3	0	0	3
		Primary	3	0	0	3

FIG. 100

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### Infusion Flow Rate Comparison

Run Period: from 8/14/2003 12:00:00AM to 3/1/2004 12:00:00AM

Page 1 of 4

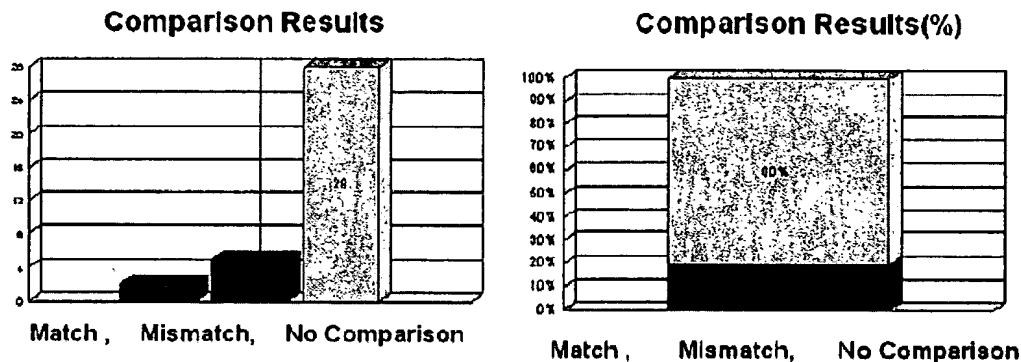


FIG. 101

Pump Mode	Rx Rate	Pump Rate	Comparison Result	Date/Time
Unit: *AUTROS DEMO UNIT*				
Nurse: Nurse, Mary				
Patient: Palm, Father				
RX: 206180 Continuous Infusion *Multiple Vitamin Inj** 10 ML Route: Intramuscular Flow Rate: 10 ML/H Estimated Administration Period: 1 Hour				
781396	Primary	555.00	No Comparison	2/10/2004 10:57:23AM
RX: 206180 Continuous Infusion *Multiple Vitamin Inj** 10 ML Route: Intramuscular Flow Rate: 10 ML/H Estimated Administration Period: 1 Hour				
781396	Primary	555.00	No Comparison	2/10/2004 11:41:02AM
RX: 206180 Continuous Infusion *Multiple Vitamin Inj** 10 ML Route: Intramuscular Flow Rate: 10 ML/H Estimated Administration Period: 1 Hour				
781397	Primary	555.00	No Comparison	2/10/2004 11:58:06AM
Patient: AUTROS, Pri				
RX: 205182 Continuous Infusion Morphine Sulfate Inj 15 MG/ML *short 10 GM = 0.667 ML To be Administered Over 10 Minutes Route: Injection Estimated Flow Rate: 4 ML/H				
776327	Primary	555.00	No Comparison	2/6/2004 10:55:19AM
776327	Primary	555.00	No Comparison	2/6/2004 10:55:22AM
Nurse: Tech, Cori				
Patient: AUTROS, Pri				

FIG. 102

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### Colleague Guardian Dose/Rate Range Out of Limit Summary

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

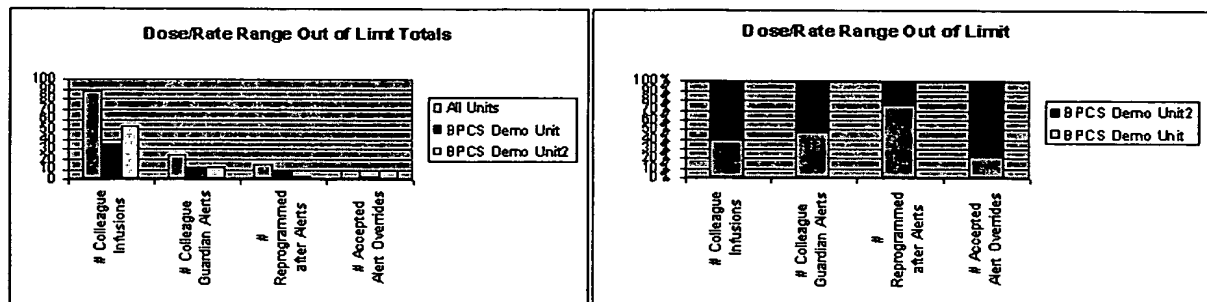


FIG. 103

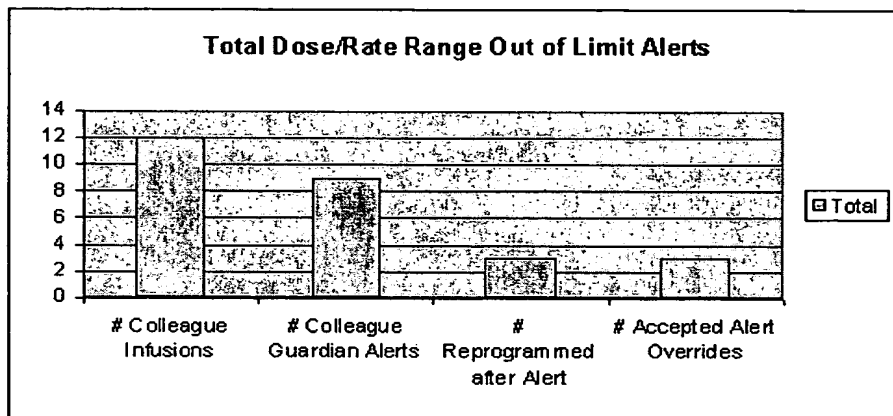
	# Colleague Infusions	# Colleague Guardian Alerts	# Reprogrammed after Alerts	# Accepted Alert Overrides
All Units	189	25	15	10
BPCS Demo Unit	35	12	9	3
BPCS Demo Unit2	54	13	3	10

FIG. 104

# Colleague Guardian Dose/Rate Range Out of Limit Unit Summary

BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**FIG. 105**

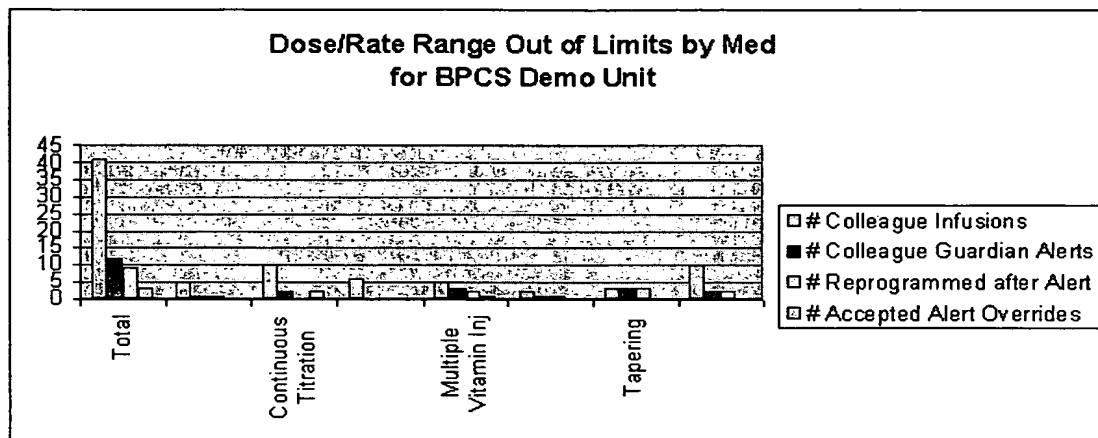
	# Colleague Infusions	# Colleague Guardian Alerts	# Reprogrammed after Alert	# Accepted Alert Overrides
Total	12	9	3	3

**FIG. 106**

### Colleague Guardian Dose/Rate Range Out of Limit Unit Summary

BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**FIG. 107**

Pharmacy Label	Colleague Guardian Label	# Colleague Infusions	# Colleague Guardian Alerts	# Reprogrammed after Alert	# Accepted Alert Overrides
Total		41	12	9	3
Bel's Morphine Sulfate Inj 2 MG/ML	MORPHINE	5	1	1	0
Continuous Titration	DOBUTAMN	10	2	0	2
Dopamine HCl Inj 40MG/ML		6	0	0	0
Multiple Vitamin Inj	ANTIBIOT	5	3	2	1
Tapering	DOPAMINE	2	1	1	0
Tapering	FLUORUOR	3	3	3	0
TPN	TPN	10	2	2	0

**FIG. 108**

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### Colleague Alarms/Alerts Summary

#### All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

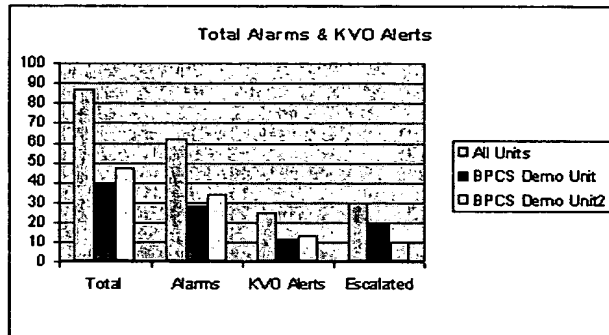


FIG. 109

	Total Infusions	Alarms/Alerts Total	# Alarms	# KVO Alerts	# Escalated	*Avg time to resolve (mm:ss)
All Units	60	87	62	25	30	2:23
BPCS Demo Unit	30	40	28	12	20	2:15
BPCS Demo Unit2	20	47	34	13	10	2:30

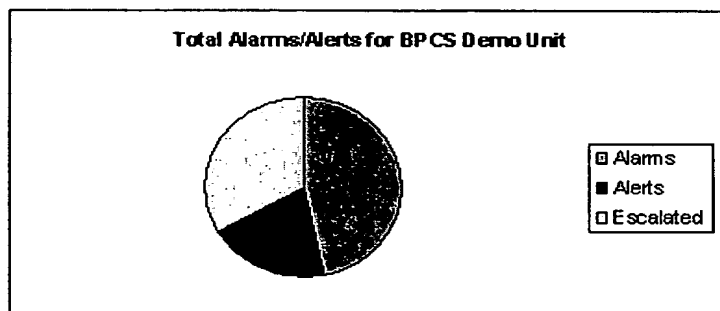
FIG. 110

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### Alarms/Alerts Summary

#### BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**FIG. 111**

Total	# Alarms	# KVO Alerts	# Escalated	*Avg time to resolve (mm:ss)
40	28	12	20	2:15

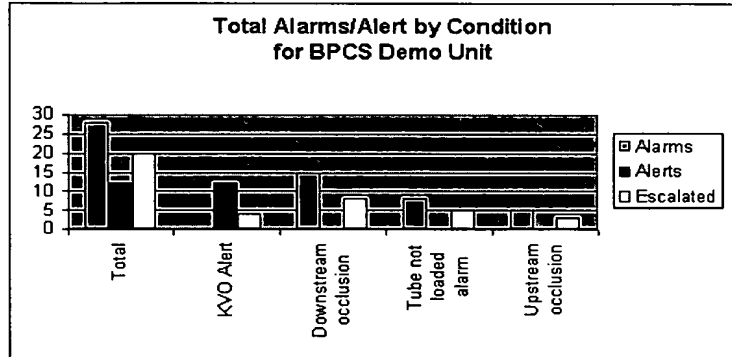
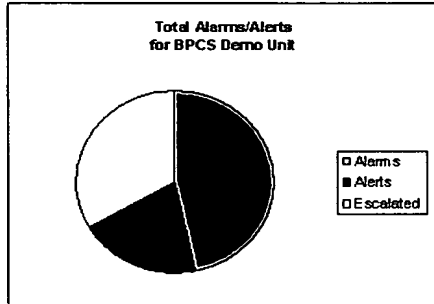
**FIG. 112**

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Colleague Alarms/Alerts Summary by Alarm Condition

BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



Total Infusions: 30

FIG. 113A

FIG. 113B

Total Infusions: 30

Alarm Condition	Total Alarms/Alerts	# Alarms	# KVO Alerts	# Escalated	Avg time to resolve (mm:ss)
Total	40	28	12	20	2:15
KVO Alert	12	0	12	4	0:45
Downstream occlusion	15	15	0	8	3:45
Tube not loaded alarm	8	8	0	5	1:10
Upstream occlusion	5	5	0	3	1:35

FIG. 114

History of pump alarms, KVO alerts, and resolutions (by alarm/ KVO alert code)

Run Period: from 8/14/2003 12:00:00AM to 3/1/2004 12:00:00AM

Page 1 of 8

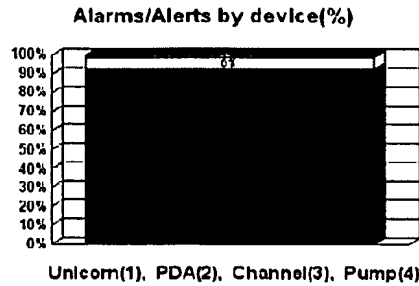
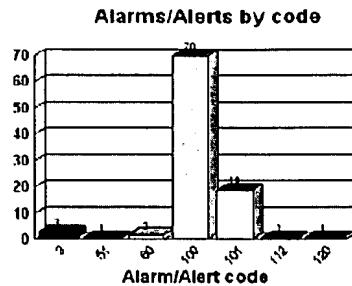


FIG. 115A

FIG. 115B

Code	Alarm Description
3	Channel Stopped Alert
51	Tube Not Loaded Alarm
60	Downstream Occlusion Alarm
100	PDA Loss of Communication
101	Unicorn Loss of Communication
112	Unicorn is initiating power-down
120	Pump Communication Lost Alarm

FIG. 116

Alarm, KVO Alert 3 Channel Stopped Alert					
Unit: AUTROS DEMO UNIT					
Patient Name: AUTROS, Ptl					
Nurse: Nurse, Marv					
RX: Intermittent Infusion					
Morphine Sulfate Inj 15 MG/ML					
15 MG = 1 ML					
Route: Injection Flow Rate: 1.5 ML/H					
Estimated Administration Period: 40 Minutes					
Every 1 Hour					
1	A00000085	Channel	Primary	9/26/2003	
RX: Continuous Infusion					
*Multiple Vitamin Inj**					
9999 ML					
Route: Injection Flow Rate: 1200 ML/H					
Estimated Administration Period: 5 Hours					
1	A00000047	Channel	Primary	1/23/2004 2:32:33PM	
1	A00000047	Channel	Primary	1/23/2004 2:33:48PM	
Total for Alarm, KVO Alert # 3 Channel Stopped Alert					
Alarm, KVO Alert 51 Tube Not Loaded Alarm					
Unit: AUTROS DEMO UNIT					
Patient Name: AUTROS, Ptl					
Nurse: Tech, Cori					

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Rev: 52.007b

Printed: 3/1/2004 1:04:04PM

Page 1 of 8

FIG. 117

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History of Alarms/Alerts and Resolutions(by Alarm/Alert)						
Run Period: from 8/14/2003 12:00:00AM to 3/1/2004 12:00:00AM				Page 2 of 8		
Esc.Level	Source	Device	Mode	Occurrence Time	Cleared Time	Silenced Time
RX: Continuous Infusion *Multiple Vitamin Inj** 9999 ML Route: Injection Flow Rate: 1200 ML/H Estimated Administration Period: 5 Hours						
0	A00000047	Channel	Primary	1/23/2004 2:32:51PM	1/23/2004 2:32:52PM	
Total for Alarm,KVO Alert # 51 Tube Not Loaded Alarm						

FIG. 118

History of pump alarms, KVO alerts, and resolutions(by cleared/silenced time)

Run Period: from 8/14/2003 12:00:00AM to 3/1/2004 12:00:00AM

Page 1 of 7

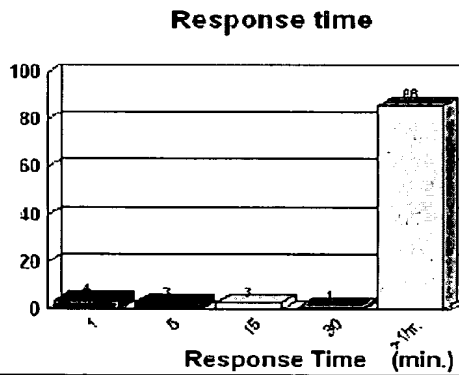


FIG. 119A

**Cleared / Silenced Alarms and KVO Alerts**

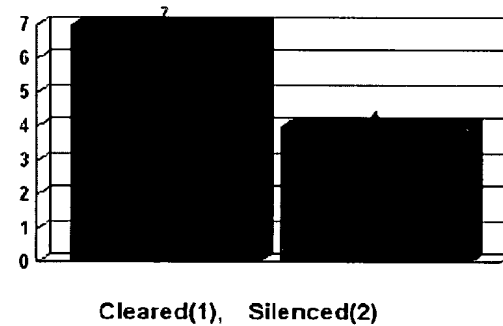


FIG. 119B

Code	Alarm Description
3	Channel Stopped Alert
51	Tube Not Loaded Alarm
60	Downstream Occlusion Alarm
100	PDA Loss of Communication
101	Unicorn Loss of Communication
112	Unicorn is initiating power-down
120	Pump Communication Lost Alarm

FIG. 120

Esc.Level	Source	Device	Mode	Occurrence	Cleared	Silenced
Clearance/Silenced time up to: 1(min.)						
Unit: AUTROS DEMO UNIT						
Patient Name: AUTROS, Pri						
Nurse: Nurse, Mary						
RX: Intermittent Infusion						
Morphine Sulfate Inj 15 MG/ML						
15 MG = 1/ML						
Route: Injection Flow Rate: 1.5 ML/H						
Estimated Administration Period: 40 Minutes						
Every 1 Hour						
0	A00000085	Channel	Primary	9/26/2003 1:09:44PM		9/26/2003 1:09:50PM
1	A00000085	Channel	Primary	9/26/2003 12:17:51PM	9/26/2003 12:17:55PM	
RX: Continuous Infusion						
Multiple Vitamin Inj**						
9999 ML						
Route: Injection Flow Rate: 1200 ML/H						
Estimated Administration Period: 5 Hours						
0	A00000047	Channel	Primary	1/23/2004 2:32:51PM	1/23/2004 2:32:52PM	
1	A00000047	Channel	Primary	1/23/2004 2:32:33PM		1/23/2004 2:32:50PM
Total Clearance/Silenced time up to: 1(min.)						4
Clearance/Silenced time up to: 5(min.)						
Unit:						
Patient Name:						
Nurse:						
RX:						
1	UnicomPE102	Unicom		2/12/2004 12:46:04PM	2/12/2004 12:48:04PM	
1	UnicomPE103	Unicom		2/12/2004 12:46:12PM	2/12/2004 12:50:12PM	
1	UnicomPE216	Unicom		2/12/2004 12:46:21PM		2/12/2004 12:50:21PM
Total Clearance/Silenced time up to: 5(min.)						3

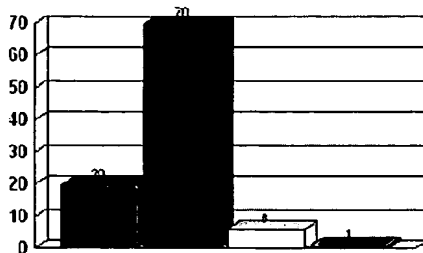
FIG. 121

# History of pump alarms, KVO alerts, and resolutions(bv unit)

Run Period: from 8/14/2003 12:00:00AM to 3/1/2004 12:00:00AM

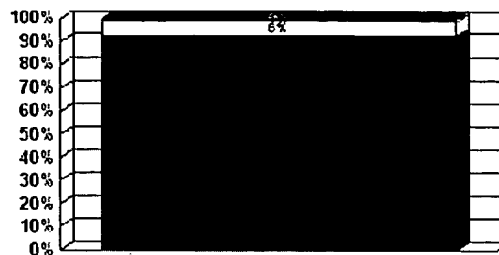
Page 1 of 5

Alarms/Alerts by device



Unicorn(1), PDA(2), Channel(3), Pump(4)

Alarms/Alerts by device(%)



Unicorn(1), PDA(2), Channel(3), Pump(4)

FIG. 122A

FIG. 122B

Esc.Level	Source	Device	Mode	Occurrence Time	Cleared Time	Silenced Time
Unit: *AUTROS DEMO UNIT*						
Patient Name: AUTROS, Ptl						
Nurse: Nurse, Mary						
RX: Intermittent Infusion						
Morphine Sulfate Inj 15 MG/ML						
15 MG = 1 ML						
Route: Injection Flow Rate: 1.5 ML/H						
Estimated Administration Period: 40 Minutes						
Every 1 Hour						
Alarm/Alert # 60 Downstream Occlusion Alarm						
0	A00000085	Channel	Primary	9/26/2003 1:09:44PM		9/26/2003 1:09:50PM
Alarm/Alert # 3 Channel Stopped Alert						
1	A00000085	Channel	Primary	9/26/2003		
Alarm/Alert # 60 Downstream Occlusion Alarm						
1	A00000085	Channel	Primary	9/26/2003 12:17:51PM	9/26/2003 12:17:55PM	
RX: Continuous Infusion						
*Multiple Vitamin Inj**						
9999 ML						
Route: Injection Flow Rate: 1200 ML/H						
Estimated Administration Period: 5 Hours						
Alarm/Alert # 51 Tube Not Loaded Alarm						
0	A00000047	Channel	Primary	1/23/2004 2:32:51PM	1/23/2004 2:32:52PM	
Alarm/Alert # 3 Channel Stopped Alert						
1	A00000047	Channel	Primary	1/23/2004 2:33:48PM		
Alarm/Alert # 3 Channel Stopped Alert						
1	A00000047	Channel	Primary	1/23/2004 2:32:33PM		1/23/2004 2:32:50PM
Unit:						
Patient Name:						
Nurse:						
RX:						
Alarm/Alert # 101 Unicorn Loss of Communication						
1	UNICORN1	Unicorn		8/28/2003		
Alarm/Alert # 101 Unicorn Loss of Communication						
1	Un	Unicorn		8/29/2003		
Alarm/Alert # 101 Unicorn Loss of Communication						
1	Unicorn1	Unicorn		2/12/2004 12:45:36PM		2/12/2004 12:50:36PM
Alarm/Alert # 101 Unicorn Loss of Communication						
1	Unicorn1	Unicorn		2/12/2004 12:45:36PM		

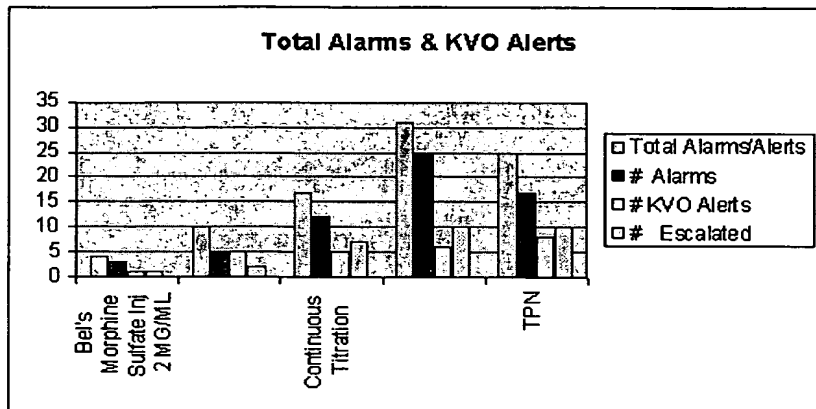
FIG. 123

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### Colleague Alarms/Alerts Summary by Med

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**FIG. 124**

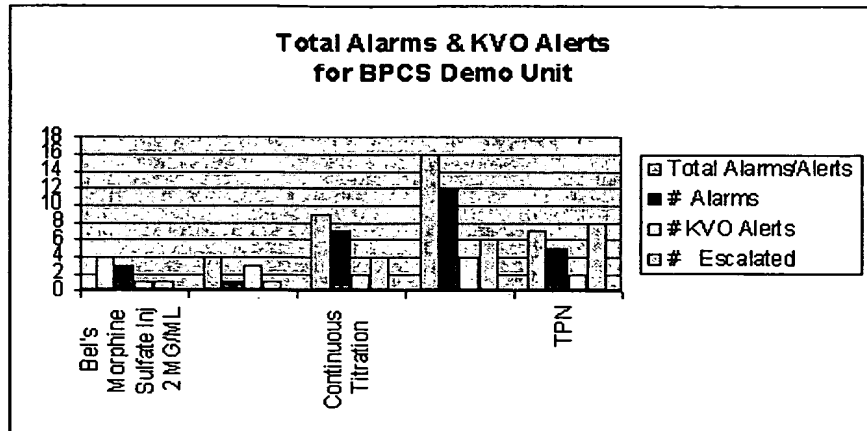
		Total Infusions	Total Alarms/Alerts	# Alarms	# KVO Alerts	# Escalated	Avg time to resolve (mm:ss)
All Units	Total	60	87	62	25	30	3:22
	Bels Morphine Sulfate Inj 2 MG/ML	3	4	3	1	1	1:15
	Multiple Vitamin Inj	10	10	5	5	2	2:30
	Continuous Titration	12	17	12	5	7	1:50
	Tapering	10	31	25	6	10	2:45
	TPN	15	25	17	8	10	2:13
BPCS Demo Unit	Total	30	40	28	12	20	4:15
	Bels Morphine Sulfate Inj 2 MG/ML	3	4	3	1	1	1:15
	Multiple Vitamin Inj	7	4	1	3	1	1:20
	Continuous Titration	10	9	7	2	4	2:45
	Tapering	5	16	12	4	6	1:30
	TPN	5	7	5	2	8	1:10
BPCS Demo Unit2	Total	20	47	34	13	10	2:30
	Multiple Vitamin Inj	3	6	4	2	1	3:10
	Continuous Titration	2	8	5	3	3	1:12
	Tapering	5	16	13	2	4	2:15
	TPN	10	18	12	6	2	1:30

**FIG. 125**

### Colleague Alarms/Alerts Summary by Med

BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**FIG. 126**

	Total Infusions	Total Alarms/Alerts	# Alarms	# KVO Alerts	# Escalated	Avg time to resolve (mm:ss)
Total	30	40	28	12	20	4:15
Bel's Morphine Sulfate Inj 2 MG/ML	3	4	3	1	1	1:15
Multiple Vitamin Inj	7	4	1	3	1	1:20
Continuous Titration	10	9	7	2	4	2:45
Tapering	5	16	12	4	6	1:30
TPN	5	7	5	2	8	1:10

**FIG. 127**

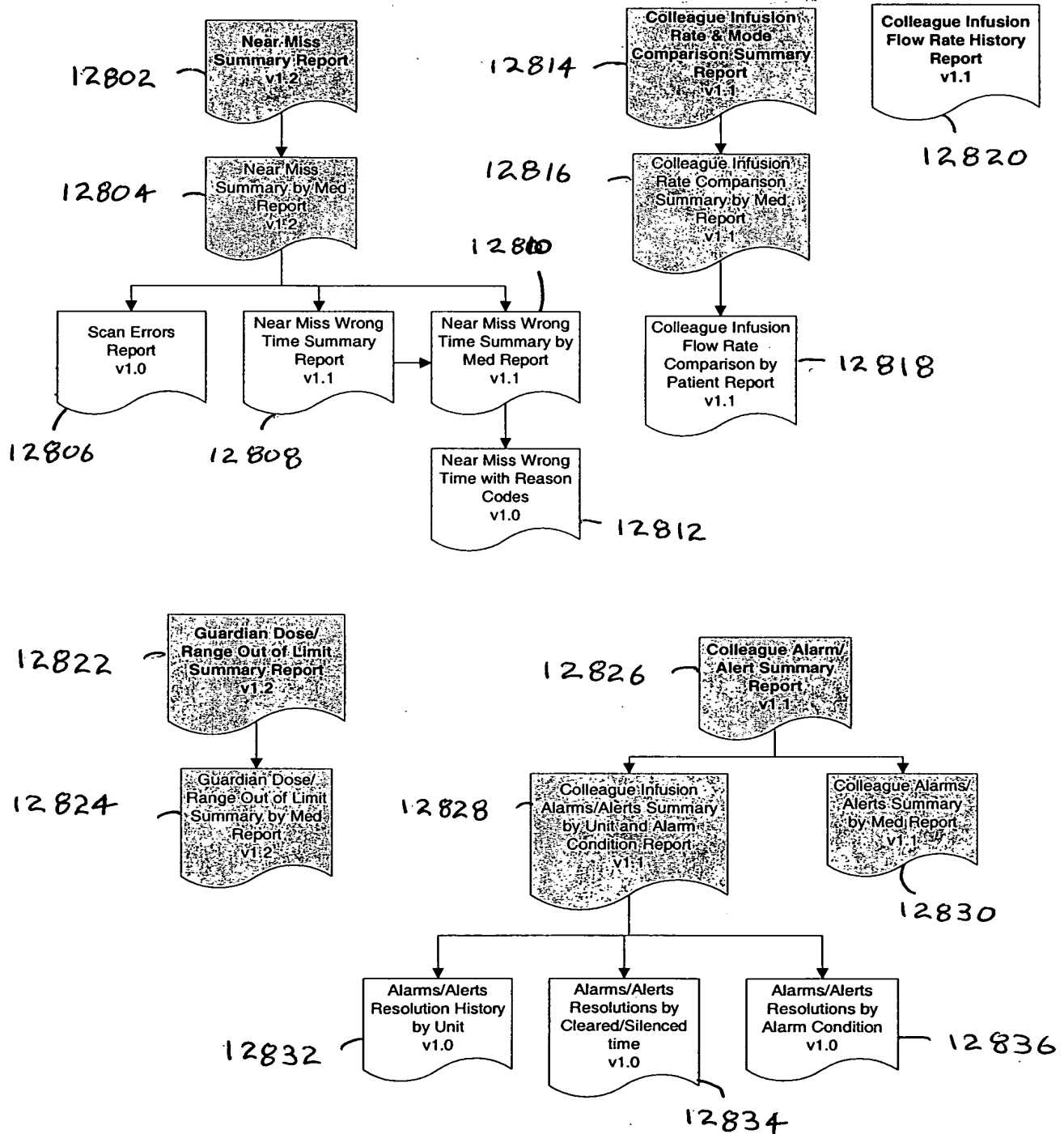


FIG. 128

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